



LUMS
A Not-for-Profit University

Learning *Without* Borders



STUDENT HANDBOOK

UNDERGRADUATE PROGRAMME
2025-2026

MESSAGE FROM THE VICE CHANCELLOR

Welcome to our university community.

As you begin this new chapter, I encourage you to approach your years at LUMS with curiosity, courage, and compassion. This is a place where ideas flourish, identities are explored, and friendships are forged for life.

You will find opportunities to challenge assumptions, expand your worldview, and contribute meaningfully to society. We are committed to supporting your academic growth and personal development every step of the way. At LUMS, we celebrate diversity in all its forms and believe that our differences, of background, identity, and perspective, are a source of strength. Engage openly and respectfully in civil discourse and be willing to listen and learn from those whose experiences differ from your own. It is through these conversations that true understanding, and genuine community, are built.

In a world that often reduces education to a race for grades or credentials, I urge you to resist that temptation. True learning goes far beyond transcripts; it lies in the joy of discovery, the struggle with complex questions, and the persistence required to understand deeply. Strive not just to perform, but to grasp, reflect, and grow. The habits of mind you develop here, critical thinking, intellectual humility, and moral clarity, are what will stay with you long after the grades are forgotten.

Welcome, and may this journey be transformative.

Warmly,



Ali Cheema
Vice Chancellor, LUMS



MESSAGE FROM THE PROVOST

Dear Students,

Welcome to LUMS, where your journey of discovery, growth, and purpose begins.

We are delighted to welcome you to a dynamic community that values academic excellence and is grounded in integrity, merit, and a deep commitment to learning. Here, you will grow not just as a student, but as a thoughtful, engaged contributor to the world around you.

Your undergraduate years at LUMS will be transformative. You will explore new ways of thinking, work alongside world-class faculty, and take part in experiences that will shape your perspective and character. Our faculty are more than subject-matter experts; they are passionate educators and dedicated mentors, committed to challenging your ideas, expanding your horizons, and supporting your growth.

Life at LUMS extends far beyond the classroom. The campus is alive with energy, driven by students who bring creativity, curiosity, and initiative to everything they do. Whether you are active in a student society, pursuing a research project, playing a sport, or volunteering in the community, you will find both your purpose and your people here.

Thank you for choosing LUMS as the starting point of this incredible journey. Your path will be uniquely your own, shaped by what you learn, how you grow, and the impact you make. We look forward to supporting you every step of the way as teachers, mentors, and fellow learners.

Warm regards,



Dr. Tariq M. Jadoon
Provost, LUMS

DISCLAIMER

This catalogue represents the most accurate information available at the time of publication in August 2025.

The University reserves the right to correct or otherwise change any information without prior notice at its sole discretion.

The most updated version is available at the Office of the Registrar portal:

<http://portal.lums.edu.pk/RegistrarOffice> > Documents to Download > Student Handbooks and Policies

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NON-PROFIT STATUS

LUMS is a federally chartered university and is approved as a non-profit organization under section 2(36) of Income Tax Ordinance, 2001 in terms of provisions of Clause 63 of Part IV of Second Schedule to the Ordinance. Any individual or organization making donations to LUMS is entitled to a tax credit under section 61 of Income Tax Ordinance, 2001. Moreover, the University has been granted exemption from the levy of income tax under Section 159 of the Ordinance, and thus, tax is not deductible on payments made to the University.

Vision

LUMS is Pakistan's leading research-intensive university, excelling in teaching and driven by a philosophy of 'Learning Without Borders'. LUMS provides an integrated curriculum, uniting disciplines to focus on solving the grand challenges of South Asia and beyond.

Mission

LUMS aspires to achieve excellence in national and international leadership through unparalleled teaching and research, holistic undergraduate education, and civic engagement to serve the critical needs of society.

It seeks to accomplish this mission as a unified institution with cutting-edge research, a modern and rigorous curriculum and socially responsible outreach to the nation and region.

Core Values

Merit

LUMS adheres to merit as the sole criteria in its decision-making. This applies to all aspects of its operations, from selection of faculty and staff to admission and evaluation of students.

Academic Freedom

We believe in the pursuit of knowledge and value the freedom to explore different disciplines without borders. We respect the right of our community members to express their ideas and encourage freedom of thought.

Integrity

Integrity is the cornerstone of our philosophy and an integral part of all our interactions. We hold ourselves to the highest standards and inculcate a culture of ethical conduct, trust, respect, fairness, and develop the same commitment in our students to ensure that they are responsible global citizens with strong character.

Diversity

Our diversity is our hallmark feature that enriches our community's experience. This is evident in the variety of programmes, disciplines and the different viewpoints, ethnicities and minorities represented on campus. Our exchange programmes and multicultural platform enables our students to embrace diversity and develop a broader perspective on collaboration.

Tolerance

We are committed to creating a positive and safe environment that thrives on freedom of thought. Our community members are encouraged to express unique point of views and engage in polite and respectful exchange of ideas and opinions.

Excellence

We strive for excellence in all our activities; from the creation of new knowledge through scholarship and research to utilising our learnings for the benefit of society.

Table of Contents

MESSAGE FROM THE VICE CHANCELLOR.....	i
MESSAGE FROM THE PROVOST	ii
THE UNIVERSITY	1
SCHOOLS AT LUMS.....	2
SULEMAN DAWOOD SCHOOL OF BUSINESS.....	2
MUSHTAQ AHMAD GURMANI SCHOOL OF HUMANITIES AND SOCIAL SCIENCES	4
SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING	7
SHAIKH AHMAD HASSAN SCHOOL OF LAW	9
SYED AHSAN ALI & SYED MARATIB ALI SCHOOL OF EDUCATION	10
UNDERGRADUATE PROGRAMME POLICIES AND REGULATIONS	12
1. Academic Year	12
2. Student Categories	12
3. Undergraduate Programme Policies	12
3.1. Undergraduate Programme Duration and Structure.....	13
3.2. University Core.....	14
3.3. University Distribution Requirements	14
4. Registration of Courses	16
4.1. Course Descriptions	16
4.2. Course Outlines.....	17
4.3. Online Course Evaluations by Students	17
5. Phases of Course Registration.....	17
5.1. Enrollment Phase I	17
5.2. Enrollment Phase II	17
6. Add/Drop and Withdrawal Periods for Regular Courses and Directed Coursework.....	17
6.1. Regular Semesters	17
6.2. Summer Semester.....	19
7. Student Status and Course Load	19
7.1. Regular Semester	19
7.2. Summer Semester.....	19
8. Directed Course Work (Courses Requiring Exceptional Method of Registration).....	20
8.1. Senior Project (SPROJ)	21
8.2. Independent Study (IS)	22
8.3. Directed Research Project (DRP).....	22
8.4. ACF Internship.....	23
9. Courses that Require a Separate Mention	23
9.1. Remedial Course in Writing & Communication	23
9.2. Language Courses	24
9.3. Waiver for Islamic Studies.....	24
10. Pre-Requisites of Courses.....	24
11. Cross-listed Courses	24
12. Course Repeat and Replace Policy	24
12.1. Policy for Thrice Failure in a Core Course	25
13. Course Audit.....	25
14. Course Cancellation.....	25
15. Major Declaration and Allocation Process for First year students.....	25
15.1. SDSB First Year Students Major Declaration.....	26

15.2.	MGSHSS Major Declaration	26
15.3.	SBASSE First Year Students Major Declaration	27
15.4.	SAHSOL First Year Students Undertaking Submission	28
15.5.	Change in Major/School.....	28
16.	Joint Major	29
17.	Double Major.....	29
18.	Minor Declaration	30
18.1.	Rules for Minors	31
19.	Withdrawals	31
19.1.	Voluntary Withdrawal from the University and Programme.....	32
19.2.	Semester off from Campus	32
19.3.	Withdrawal from all courses in a semester	33
19.4.	Withdrawal from a course in a semester.....	33
19.5.	Involuntary Withdrawal	33
19.6.	Rejoining Process for Semester Withdrawals on Health Grounds.....	34
19.7.	Conditional Approval of Continued Enrollment.....	34
19.8.	Unauthorized Withdrawal	35
20.	Transfer Students	35
20.1.	Transferred Credits for Courses Taken at Institutions under the LUMS Exchange Prg	36
20.2.	Transferred Credits for Courses Taken by LUMS Students at Other Institutions	37
21.	Academic Performance	38
21.1.	Student Evaluation.....	38
21.2.	Grading Policy	39
21.3.	Calculation of Semester GPA	40
21.4.	Calculation of Cumulative GPA (CGPA)	40
21.5.	Grade Review Policy.....	41
21.6.	Grade Change Policy	41
21.7.	Course Pass/Fail Policy.....	42
22.	Attendance Policy.....	43
22.1.	BA (Honours)/BS/BSc (Honours) Programmes	43
22.2.	B.A.-LLB (Honours) Programme (LL. B Years I, II, and III)	43
23.	Examinations	43
24.	Make-up Policy for Graded Instruments.....	43
24.1	Rationale and overview	44
24.2	Process of petitioning and associated timelines.....	44
24.3	Other elements of the policy:	46
24.4	Circumstances covered by the policy.....	47
25.	Student Code of Conduct	49
25.1	Introduction	49
25.2	General Expectations of Conduct	51
25.3	Misconduct	53
25.4	Academic Dishonesty.....	58
25.5	University Disciplinary Procedures	60
26.	Academic Standing	69
26.1	Academic Warning.....	69
26.2	Probation and Separation	69
26.3	Readmission upon Separation	71

26.4	After Withdrawal or Separation.....	73
27.	Academic Honours at LUMS.....	73
27.1	Honours.....	73
27.2	Medals.....	73
27.3	Medals – Specialization (Major).....	74
27.5	Undergraduate Semester Wise/End of the Year Academic Recognition.....	75
28.	Graduation Tracking.....	75
28.1	Graduation Audit Form (GAF)	76
28.2	Other Graduation Clearance Requirements	76
28.3	Graduation Denied.....	77
28.4	Name on Transcript and Degree	77
28.5	Degree before Convocation (DBC)	77
28.6	Walking In Convocation	78
28.7	Award of Regular Degree on the Convocation Day	78
28.8	Awarding Degrees in Absentia	78
28.9	Awarding a Posthumous Degree.....	79
28.10	University Clearance, and Security Refund.....	79
	SULEMAN DAWOOD SCHOOL OF BUSINESS (SDSB).....	80
	The Accounting and Finance (ACF) Programme	82
	The Management Science (MGS) Programme.....	88
	Public Management Minor	102
	Computational Finance Minor	103
	Office of Undergraduate Student Advising SDSB (OUSA - SDSB).....	104
	MUSHTAQ AHMAD GURMANI SCHOOL OF HUMANITIES AND SOCIAL SCIENCES (MGSHSS)	107
	MGSHSS Four-Year Undergraduate Programmes	108
	MGSHSS School Core Curriculum	108
	Department of Humanities and Social Sciences.....	111
	Programme Structure - Anthropology/Sociology.....	111
	Programme Structure - Political Science.....	115
	Programme Structure – History	118
	Programme Structure – English	122
	Programme Structure - Comparative Literature and Creative Arts (CLCA).....	126
	Programme Structure - Psychology.....	131
	Senior Project in the Humanities and Social Sciences Department.....	136
	Department of Economics.....	144
	Programme Learning Objectives - Economics.....	144
	Programme Structure - Economics	144
	Programme Structure - The Political Science and Economics (Joint Major)	149
	Programme Structure – The Economics and Mathematics (Joint Major).....	153
	Programme Structure- Economics, Data and Computer Science (Joint Major).....	158
	Guidelines for Minor in Economics	164
	Programme Coordination Office (PCO)- Economics.....	164
	MGSHSS Undergraduate Academic Advising Unit.....	167
	MGSHSS Career Center:.....	169
	Academic Support Lab (ASL).....	170
	MGSHSS In-Class Examination Rules and Regulations.....	170

SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING (SBASSE)	172
Department of Life Sciences	177
Department of Chemistry and Chemical Engineering	180
Department of Computer Science	188
Department of Electrical Engineering	191
Department of Mathematics	197
The Economics and Mathematics (Joint Major) Programme	199
Department of Physics	203
SBASSE Minors	207
Biology Minor	207
Chemistry Minor	208
Computer Science Minor	208
Mathematics Minor	209
Physics Minor	210
Robotics Minor	210
Quantum Technologies Minor	211
Minor in Computer Engineering	212
SHAIKH AHMAD HASSAN SCHOOL OF LAW (SAHSOL)	215
BA-LL.B. (Honours) Programme	215
Academic Advising at SAHSOL	221
SYED AHSAN ALI & SYED MARATIB ALI SCHOOL OF EDUCATION (SOE)	225
SOE Undergraduate Academic Programmes	225
1. Minor in Education	225
2. Minor in Education Policy, Politics and Governance	227
3. Minor in Curriculum, Instruction and Assessment	228
4. Minor in Inclusive Education	229
ADMINISTRATIVE OFFICES	232
OFFICE OF THE REGISTRAR (RO)	232
OFFICE OF ADMISSIONS	232
OFFICE OF FINANCIAL AID (OFA)	233
OFFICE OF FINANCE	236
NATIONAL OUTREACH PROGRAMME (NOP) CENTRE	241
NOP STUDENT SUCCESS INITIATIVE	243
OFFICE OF ACADEMIC ADVISING AND STUDENT SUCCESS	244
OFFICE OF STUDENT AFFAIRS (OSA)	245
OFFICE OF PROGRAMME ENHANCEMENT (OPE)	271
OFFICE OF ACCESSIBILITY AND INCLUSION (OAI)	272
OFFICE OF INTERNATIONAL AFFAIRS (OIA)	279
OFFICE OF ADVANCEMENT	281
LUMS LEARNING INSTITUTE (LLI)	283
CENTRE FOR CONTINUING EDUCATION STUDIES (CES)	284
THE GAD AND BIRGIT RAUSING LIBRARY	285
INFORMATION SYSTEMS AND TECHNOLOGY (IST)	291
GENERAL ADMINISTRATION SERVICES DEPARTMENT (GAS)	296
USEFUL CONTACTS	300
SUBJECT AREAS AND COURSE CODE PREFIX TABLE	301
GLOSSARY	302

THE UNIVERSITY

Established in 1985 as a private, not-for-profit university, LUMS is one of South Asia's top academic institutions known for exceptional learning, research intensity and teaching excellence. It is known for its high academic standards and quality, with special attention to access, relevance, and collaboration with an increasing focus on addressing the grand challenges facing the Global South.

LUMS offers a distinctive academic experience through its learning without borders perspective, providing an integrated core curriculum across disciplines. Its five schools have nurtured leaders in all spheres of life ranging from entrepreneurship, economics, biology, mathematics, engineering, education, writing, politics, and business. The University's internationally qualified faculty are experts in their fields. They create an engaging learning environment and foster a mentoring relationship with their students, who are taken on as co-creators in this process. A major hallmark of the pedagogy at LUMS is that it encourages students to apply their knowledge and come up with progressive 21st century solutions.

Cutting-edge research at LUMS is positioned to examine the mission of higher education from the perspective of innovation, continuing education, and social engagement. The centres at LUMS work in areas ranging from water, energy, and entrepreneurship to indigenous languages and public policy, among others. Research from faculty is published in prestigious publications all around the world, and their work also informs policymaking at national and regional levels.

LUMS has also ushered in a new era of learning in the region by offering interactive online learning models. Through its digital learning platform, LUMSx, it is also expanding access and providing a range of large-scale, world-class pedagogical innovations. The well-being of its community members remains a major priority at LUMS. Several health and safety initiatives are in place, including therapy, counselling, and meditation, and these provide constant and systematized support to students, staff, and faculty. LUMS continues to uphold high academic standards, and its students, faculty and alumni are helping build a more sustainable and equitable society.

SCHOOLS AT LUMS

SULEMAN DAWOOD SCHOOL OF BUSINESS

Since its establishment in 1986, the Business School at Lahore University of Management Sciences has become a national and regional leader in business education. Named in honour of the late business leader and entrepreneur, Mr. Suleman Dawood, for the generous support extended by his family, the Suleman Dawood School of Business (SDSB) is Pakistan's first business school to achieve international accreditation by AACSB – The Association to Advance Collegiate Schools of Business. For over a century, AACSB has been a global benchmark in evaluating business school quality based on programme relevance, impact, and overall educational experience. To date, less than 6% of the world's business schools have earned AACSB accreditation. This accreditation reflects the collective commitment of SDSB faculty and staff to delivering high-quality education and making impactful intellectual contributions. As a premier AACSB-accredited institution, SDSB prepares graduates who lead, transform, and make a lasting impact on business and society.

The school's mission is to promote ethical and thoughtful leadership, influence practice and policy through innovative knowledge generation, and provide a transformative learning experience. A pioneer in the region, SDSB, initially inspired by Harvard Business School's teaching philosophy, has embraced and advanced the case method pedagogy to deliver a transformative learning experience grounded in the local and regional context. It boasts one of Asia's largest case study databases. Alongside case-based learning, the programmes are enhanced with a strong experiential component. Regular curriculum reviews, influenced by industry leaders and an extensive alumni network, ensure the programmes stay aligned with current business needs.

SDSB is committed to leading the evolution of management thought and advancing organisational practices that have a substantial societal impact. In support of these goals, the Centre for Business and Society (CBS) serves as a dedicated multidisciplinary hub, fostering discussions at the nexus of business and societal change and rethinking the role of businesses in creating sustainable societies.

The Suleman Dawood School of Business (SDSB) offers a four-year BSc (Honours) degree in the following majors:

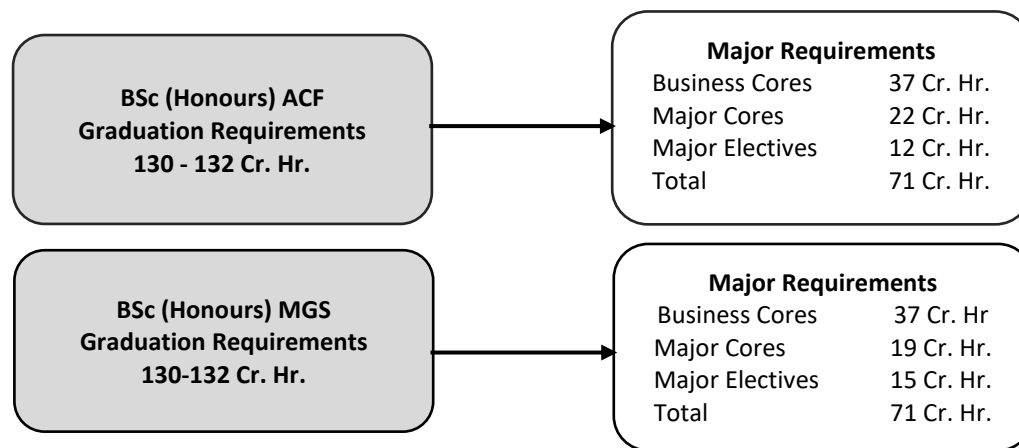
- Accounting and Finance
- Management Science

In addition to the above majors, SDSB offers minors in the following disciplines:

- Public Management
- Computational Finance

Additionally, executive courses taught by SDSB faculty at the Rausing Executive Development Centre (REDC) provide a vital link between the faculty and business executives, ensuring that the curriculum remains relevant to evolving business landscapes and facilitating impactful corporate relationships

Suleman Dawood School of Business has the vision to develop ideas and people to shape business and society; this is achieved by nurturing trailblazers and changemakers who do not just add value but create it. We welcome you to explore our programmes and see for yourself.



MUSHTAQ AHMAD GURMANI SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Mushtaq Ahmad Gurmani School of Humanities and Social Sciences (MGSHSS) offers the most innovative programmes for students, along with an invigorating research environment for faculty in the entire South Asian region.

MGSHSS comprises two departments:

- Humanities and Social Sciences, and
- Economics

MGSHSS offers four-year degree programmes in the following majors:

BSc (Honours)

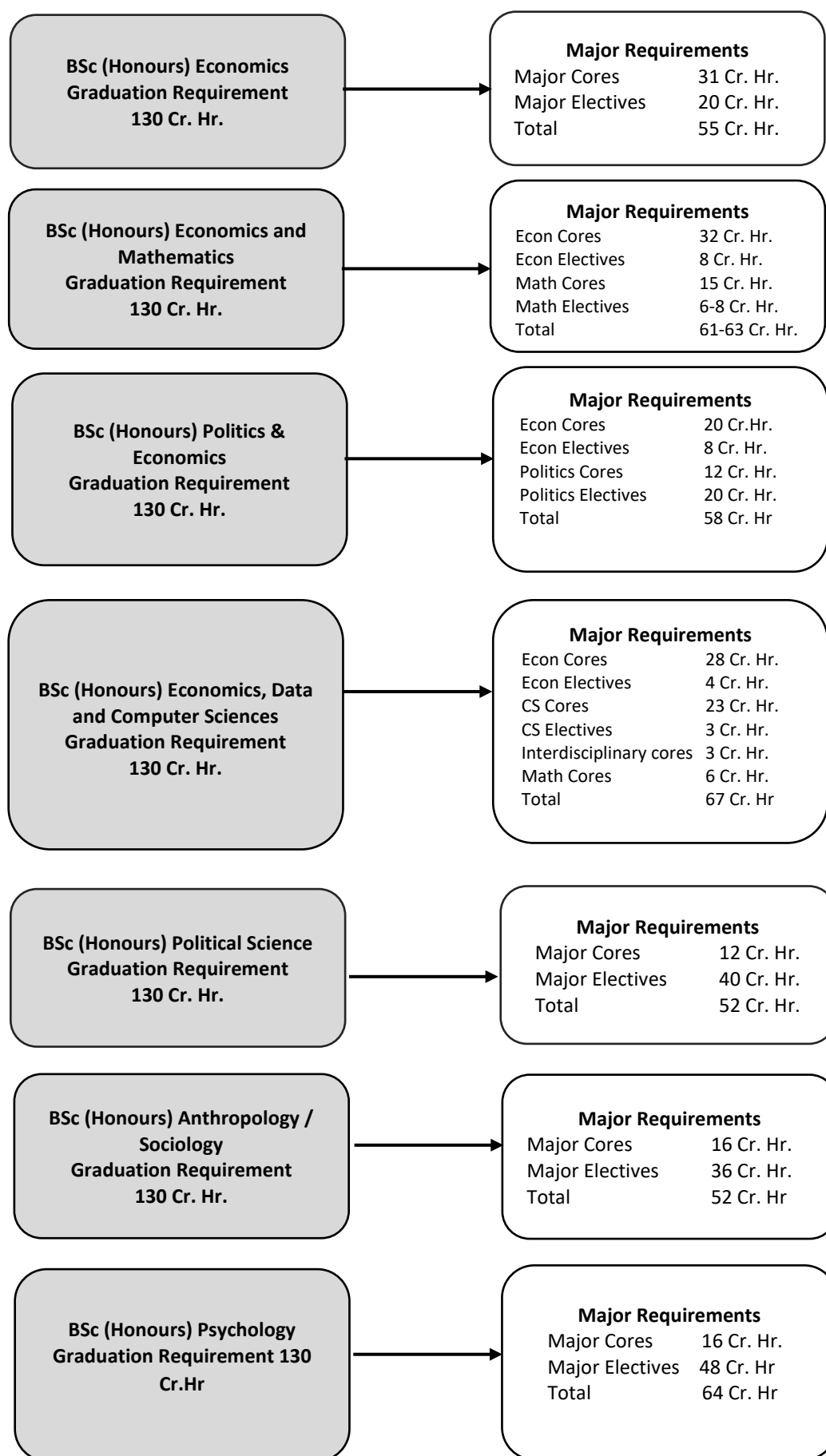
- Anthropology / Sociology
- Political Science
- Psychology
- Economics
- Economics and Mathematics (Joint Major)
- Economics, Data and Computer Science (Joint Major)
- Political Science and Economics (Joint Major)

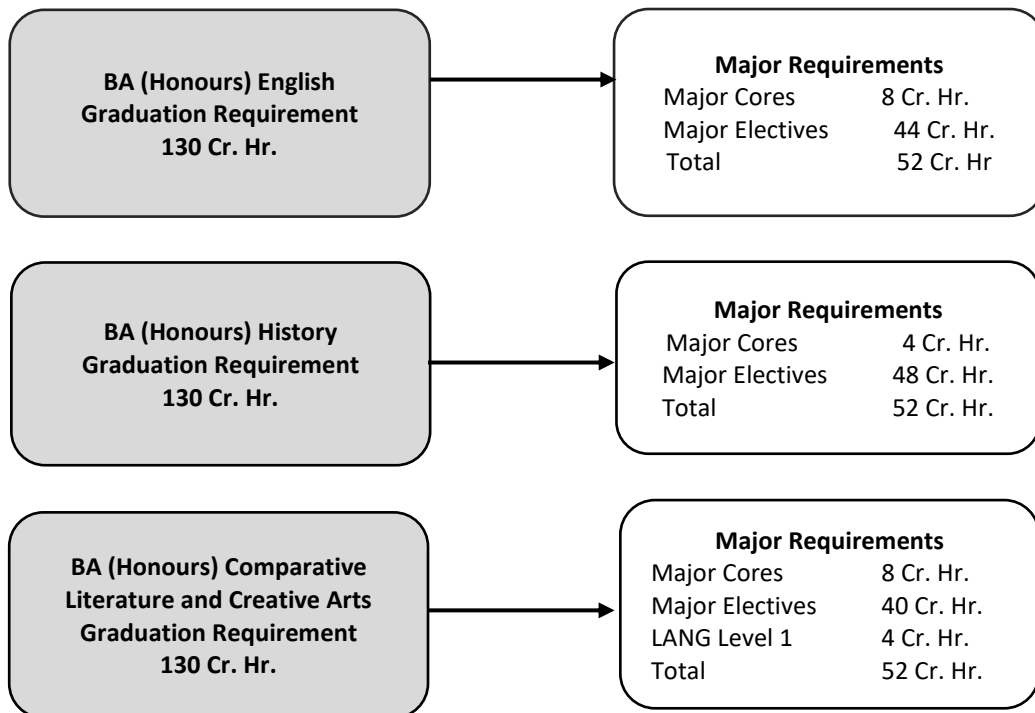
BA (Honours)

- Comparative Literature and Creative Arts (CLCA)
- English
- History

In addition to majors, MGSHSS offers Minors in the following disciplines:

- Anthropology/Sociology
- Comparative Literature and Creative Arts
- Economics
- English
- Environmental Studies
- Gender and Sexuality Studies
- History
- Philosophy
- Political Science
- Psychology
- Study of Religion





SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING

The LUMS Syed Babar Ali School of Science and Engineering (SBASSE), modelled on some of the leading universities of the world, implements a paradigm shift for science and engineering education in the country, admitting students into a joint science and engineering programme and exposing them to various scientific and engineering disciplines offered before they are required to choose a major. Its mission is to produce quality graduates who are technically competent problem solvers, and to create knowledge through interdisciplinary research on issues of local and global relevance.

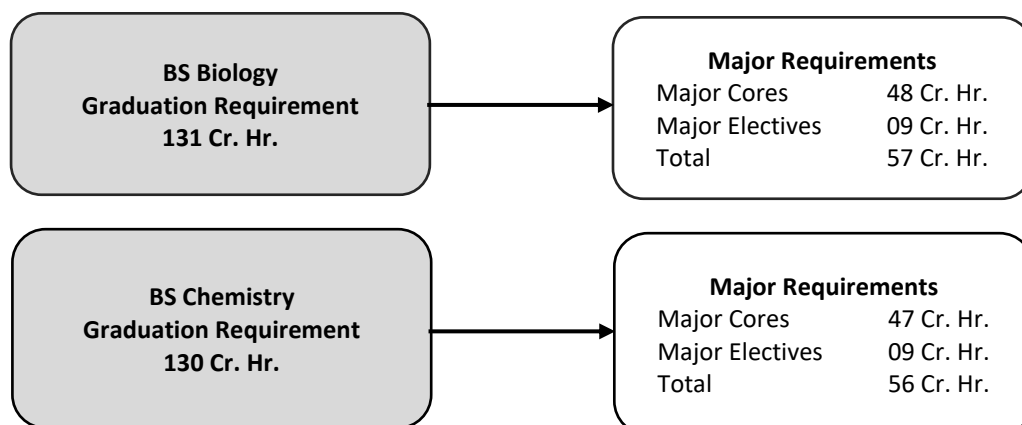
The SBASSE offers a four-year BS degree in the following areas:

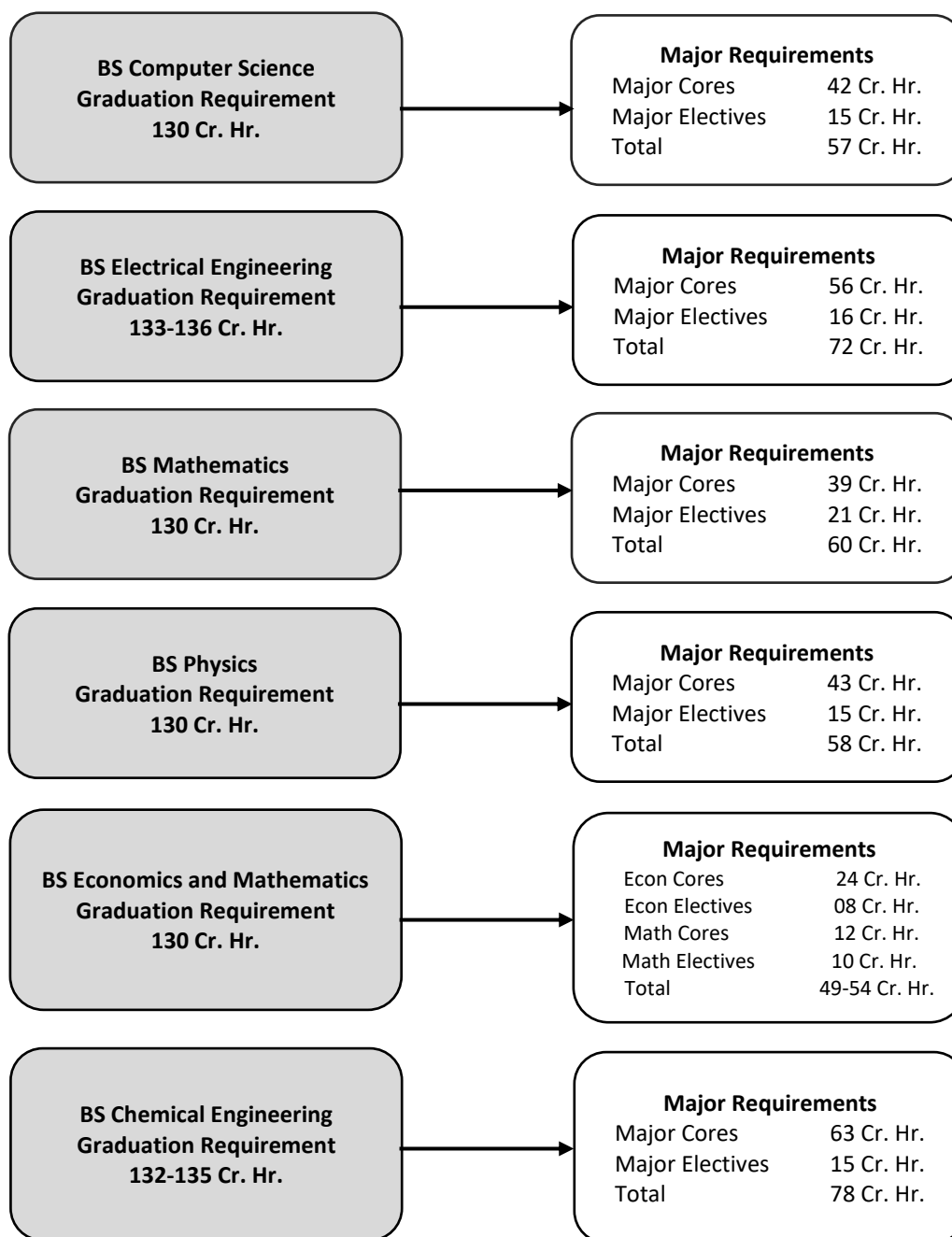
- Biology
- Chemical Engineering
- Chemistry
- Computer Science
- Economics & Mathematics (Joint Major)
- Electrical Engineering
- Mathematics
- Physics

In addition to majors, SBASSE offers Minors in the following disciplines:

- Biology
- Chemistry
- Computer Engineering
- Computer Science
- Quantum Technologies
- Mathematics
- Physics
- Robotics

There is also the option of double majors, which is allowed under a set of well-thought-out rules.

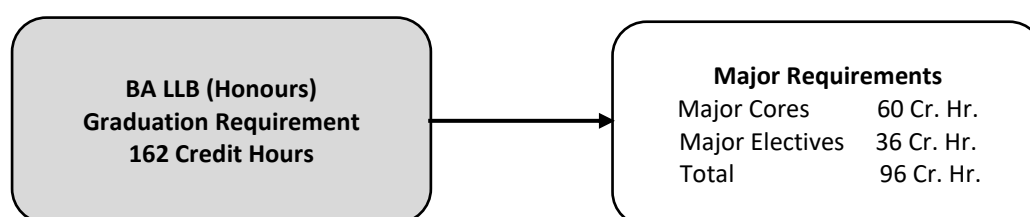




SHAIKH AHMAD HASSAN SCHOOL OF LAW

The Shaikh Ahmad Hassan School of Law (SAHSOL) combines the richness of liberal arts and interdisciplinary education with solid professional training in law. The Law School offers a five-year BA.LLB (Honours) degree. LUMS has been offering the BA.LLB programme since 2003; first under the Department of Law and Policy of the School of Humanities and Social Sciences; and since 2012, as one of LUMS' five Schools, housed in its own law school building, benefiting from state-of-the-art student services and facilities.

The BA.LLB programme is split into two parts: in the first two years of the B.A. phase, students are introduced to a wide variety of subjects offered by the other schools of LUMS. During this stage of their studies, law students are exposed to concepts and ideas taken from other relevant disciplines such as Economics, History, Management, Political Science, Psychology, Anthropology/Sociology, Education, and Science, and are equipped with essential communication and analytical skills. The LLB phase consists of a number of core law courses as prescribed by the Pakistan Bar Council, and a broader range of exciting advanced elective courses to deepen skills and expand knowledge of legal fields. The elective courses are grouped into subject clusters such as Law, Government and Citizenship, Business Law, Criminal Justice, Legal Theory, International & Comparative Law, and others. In addition, a number of legal writing and practice courses, such as Advocacy, Drafting and Opinion Writing, will prepare students for the realities of working as a lawyer in Pakistan and abroad. The law school's teaching environment is stimulating, interactive and innovative. There is ample opportunity to practice and test skills learned in the classroom through a range of student-led activities and competitions including mooting and pro-bono work.



SYED AHSAN ALI & SYED MARATIB ALI SCHOOL OF EDUCATION

Vision

We seek to operate at the crucial nexus of research, policy and practice, supporting a faculty that is internationally competitive, connected, and relevant. The curriculum, featuring extensive field engagement, will produce graduates capable of becoming strategic leaders, policy researchers, and reflective practitioners, distinctly placed to direct and shape a reimagined and vibrant education reform agenda for Pakistan.

The institution is fueled by the mission to produce future leaders who will *Reflect* thoughtfully, learn to *Redefine* best practices in education, and collectively *Reimagine* an education Reform agenda for Pakistan.

About the School

Syed Ahsan Ali & Syed Maratib Ali School of Education is dedicated to developing strategic leaders and change makers within the rapidly expanding educational landscape in Pakistan. The mandated comprehensive one-year field experience equips graduates with indispensable skills to become policy researchers and reflective practitioners.

Since its inception, SOE has officially introduced an intensive full-time MPhil Education Leadership and Management (ELM) program, as well as an undergraduate minor in Education. The formation of the graduate program at SOE ensued from the increasing demand for educational services and the subsequent growth of the education sector in Pakistan. There is a dire need for well-trained decision-makers and leaders in the sector, such as school principals, school chain managers, policy analysts and implementers, and higher education administrators. For this purpose, SOE aims to cultivate a new generation of educational leaders who will provide strategic direction to the burgeoning education ecosystem.

SOE is continuously expanding to address the challenges faced by the education sector. In 2021, the school successfully launched an intensive full-time Executive MPhil Education Leadership and Management (EELM) weekend program, as well as a specialized stream within the undergraduate minor in Education focused on Policy, Politics, and Governance. In 2022, SOE successfully introduced another stream, the Undergraduate Minor in Education, with a focus on Curriculum and Instruction. . In 2023, as part of the expansion plan, SOE has introduced the new stand-alone minor in Inclusive Education also.

The school strives to cater to the diverse educational needs of a culturally varied and geographically dispersed student body by providing them with academic, professional and personal preparation. This opens doors for them to access opportunities that enable them to make a positive impact on the educational landscape.

SOE comprises several important departments that work collaboratively to create a meaningful student experience throughout the program. These departments include Dean's Office, the Academics office, the Marketing and Student Services Office, the Partnerships Office, the Career Placement Office, and the Professional Education and Policy Engagement Office.

A crucial aspect of a student's time at SOE is their engagement with professionals in the education sector. The school has established partnerships with a network of schools and educational organizations to ensure easy access of its students to the professional education landscape. These partnerships facilitate student placements for field engagement and ensure student involvement with organizations during the practicum module of the graduate coursework. The broad spectrum of educational institutions and organizations

includes public and private schools, trust schools, for-profit and non-profit organizations, non-formal education providers, as well as Madrassah schools. This diverse array of placements aims to create a rich and varied learning experience.



Undergraduate Programme Policies & Regulations

UNDERGRADUATE PROGRAMME POLICIES AND REGULATIONS

All students are subject to the University's academic policies and regulations. Students are responsible for ensuring that they meet the University and degree requirements in addition to meeting the academic deadlines.

1. Academic Year

The academic year at LUMS comprises of two regular semesters, the Fall and Spring semesters. Each regular semester is 16 weeks. A class scheduled twice a week has 30 sessions in the semester, 15 class sessions for each weekday. Faculty is required to take at least 28 sessions, including midterm examinations. Two extra sessions can be utilized for regular/review classes (as needed). Graded instruments cannot be taken in these sessions. One week of final examinations follows. The Fall semester begins at the end of August and lasts till late-December, while the Spring semester is from mid-January till late May.

The Summer semester is optional. It is a special accelerated semester with the same contact hours as a regular semester.

2. Student Categories*

The students are categorized according to the number of credit hours earned as follows:

BA/BSc (Honours) and BS Programme

CATEGORY	CREDIT HOURS EARNED
First Year	0 – 30
Sophomore	31 – 60
Junior	61 – 94
Senior	95 – 130 or above

B.A.-LLB (Honours) Programme

CATEGORY	CREDIT HOURS EARNED
First Year	0 – 33
Sophomore	34 – 66
1st Year Law	67 – 98
2nd Year Law	99 – 130
3rd Year Law	131– 162 or above

**For transfer students, the number of credit hours transferred to LUMS count towards the credit hours completed. This grand total, i.e., the number of credit hours transferred and those completed at LUMS, is used in determining the student category.*

3. Undergraduate Programme Policies

Students are required to make/follow a study plan in consultation with their faculty advisors/School Academic Advisement Units to complete their degree and major requirements.

The graduation requirements are:

- Successful completion of at least 130 credit hours for the BA-BSc (Honours) programme, 130 to 136 credit hours for the BS programme, and 162 credit hours for the B.A.-LLB (Honours) programme, taken over a minimum period **of 8 regular semesters (of 16-18 weeks' duration), summer semesters NOT included**. For BALLB, completion of a minimum period of 10 regular semesters is mandatory.
- Completion of all the requirements of at least one major/degree programme.
- Completion of all LUMS courses satisfying degree requirements with a cumulative grade point average (CGPA) of at least 2.00.
- To be a student in good academic and disciplinary standing and not be involved in any kind of investigation.

3.1. Undergraduate Programme Duration and Structure

The normal duration of the BA-BSc (Honours) and BS programmes is four years (that is, a minimum of 8 regular semesters, summer semesters NOT included*). A student can, however, remain enrolled in either of these programmes for a maximum of six consecutive calendar years from the date of admission as a fresh candidate to LUMS.

The B.A.-LLB (Honours) programme is a five-year joint degree with the first two years in common with other undergraduate programmes, followed by a three-year LLB programme. A student can remain enrolled in this programme for a maximum of seven consecutive calendar years from the date of admission as a fresh candidate to LUMS.

***As per HEC rules, it is mandatory to complete a minimum of eight (8) regular semesters (10 regular semesters for BALLB) in order to graduate with an undergraduate degree. Summer semesters are not counted as optional, accelerated semesters.**

Students who take semester breaks/semester withdrawals or who are given forced semesters off due to a disciplinary penalty will have to make up for the time lost by taking additional semesters to ensure that they complete their eight (8) regular semesters or else they will not be allowed to graduate. Hence, they are advised to plan their academic journey very carefully in consultation with their respective School Academic Advisement Units.

Figure 1 shows the structure of all undergraduate programmes at LUMS. To graduate, students must complete the bin-wise courses belonging to the five categories shown below. For details of individual programme structure, please refer to Academic Departments and Programme Outlines (Section 2).

3.2. University Core

The University requires all undergraduate students to study the courses listed below that constitute the University core:

SS 100	Writing & Communication	[4 Credit Hours]
SS 101	Islamic Studies (Optional for non-Muslim students)	[2 Credit Hours]
SS 102	Pakistan Studies	[2 Credit Hours]

First year students are required to take University core courses in their first year**. They are pre-registered for the courses and cannot drop them. Students requiring an introductory level remedial course before taking Writing & Communication are pre-registered in a two-credit hour Introduction to Writing (SS 100A) course.

**MGSHSS students, please refer to their school core requirements in Academic Departments and Programme Outlines (Section 2).

3.3. University Distribution Requirements

In addition to the University core, it is mandatory for each student* to complete the University distribution requirements by taking at least seven courses** designated as distribution courses. The distribution requirements ensure that students gain wide exposure to other areas in addition to training in an academic specialty.

The University Distribution Courses are classified into two broad categories:

- In-Group
- Out-Group

Students are required to complete In-Group and Out-Group requirements according to their degree plans in consultation with their School Advising Units.

**The MGSHSS school core requirement adequately covers the University In-Group requirement, hence the MGSHSS students are required to complete their three Out-Group distribution requirement only.*

***The SBASSE school core requirement adequately covers the University In-Group requirement for Science and Engineering students, hence SBASSE students are required to complete their Out-Group distribution requirement only.*

FIGURE 1

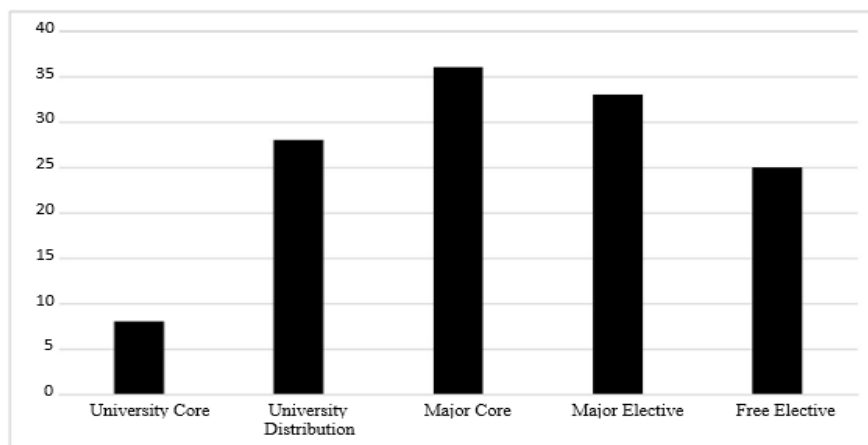


Table 1: Major Wise University Distribution Requirements

SCHOOL	MAJORS	IN-GROUP	OUT-GROUP
SDSB	Accounting and Finance	ECON ¹ , LAW ¹ , MGS ^{1*}	HSS ^{1***} , SE ¹
	Management Science	ECON, LAW, ACF ^{1**}	HSS, SE
MGSHSS	Economics	The MGSHSS school core requirement adequately covers the University In-Group requirement, hence the MGSHSS students are required to complete their three Out-Group distribution requirement only.	LAW, EDU & SE (Excluding MATH 100)
	Economics and Mathematics (Joint Major)		ACF, MGS (excluding all FINN courses), EDU, SE (excluding all Mathematics courses) & LAW
	Politics and Economics (Joint Major)		LAW, EDU & SE (Excluding MATH 100)
	Economics, Data and Computer Science (Joint Major)		ACF, MGS (excluding all FINN courses), EDU, SE (excluding all Mathematics and CS courses) & LAW
	Anthropology/Sociology		ACF, MGS, EDU, SE & LAW (excluding MATH 100)
	Psychology		ACF, MGS, EDU, SE & LAW (excluding MATH 100)
	Political Science		ACF, MGS, EDU, SE & LAW (excluding MATH 100)
	History		ACF, MGS, EDU, SE & LAW (excluding MATH 100)
	English		ACF, MGS, EDU, SE & LAW (excluding MATH 100)
	Comparative Literature and Creative Arts (CLCA)		ACF, MGS, EDU, SE & LAW (excluding MATH 100)
SBASSE	Biology	The SBASSE school core requirement adequately covers the University In-Group requirement for Science and Engineering students, hence SBASSE students are required to complete their Out-Group distribution requirement only.	ACF, MGS, ECON, HSS, LAW & EDU
	Chemistry		ACF, MGS, ECON, HSS, LAW & EDU
	Chemical Engineering		ACF, MGS, ECON, HSS, LAW & EDU
	Computer Science		ACF, MGS, ECON, HSS, LAW & EDU
	Economics and Mathematics (Joint Major)		ACF, MGS, HSS, LAW & EDU
	Electrical Engineering		ACF, MGS, ECON, HSS, LAW & EDU
	Mathematics		ACF, MGS, ECON, HSS, LAW & EDU
	Physics		ACF, MGS, ECON, HSS, LAW & EDU
SAHSOL	Law	HSS, ECON	ACF, MGS, SE & EDU,

¹ ECON-Economics, ACF-Accounting and Finance, MGS-Management Science, SE-Science and Engineering, HSS-Humanities and Social Sciences, LAW-Law, EDU – Education

* For SDSB MGS is represented through DISC, except for DISC 203 course which is an Out-group, for remaining schools MGS represents DISC, MKTG, MGMT & ORSC prefix courses.

** ACF is represented through ACCT, ACF & FINN prefix courses.

*** HSS is represented through ANTH, ENGL, HIST, PHIL, POL, PSY, REL, CLCA, SOC, ENV courses.

Distribution requirements are met by introductory level* courses (1XX and 2XX) in a subject area. Additionally, 3XX and 4XX level courses without pre-requisites also count towards the distribution requirement. Distribution courses are for 3 or 4 credit hours.

*MATH 100: Pre-Calculus does not count towards distribution requirements but counts as a free elective.

*ECON 100

Principles of Economics counts towards the distribution requirement for Science and Engineering students as an Out-Group course. In the case of ACF and LAW, ECON 100 is an In-Group course. For Economics, Economics and Mathematics, Political Science and Economics, Economics, Data and Computer Science majors ECON 100 counts as a free elective.

* ECON 100 is not a core requirement

For MGS/HSS students, all Out-Group courses that are cross listed with their majors will not count as Out-Group. For further details, please contact the Academic Advising Unit (AAU).

Language (LANG) courses do not count towards distribution requirements. They are letter graded and count towards the Free Elective courses' requirements.

As a general principle, students cannot count a single course towards more than one requirement, except as defined in the minor policy.

GSL prefix: Non-Law courses offered under the stream General Studies of Law, with a GSL prefix, will be counted towards the free electives for all schools.

4. Registration of Courses

Semester registration/enrollment is the implementation of the course memo. The course memo is an online course catalogue that contains complete information regarding the courses that are offered by the respective departments in a semester. It is available well before the commencement of the next semester's enrollment. Students are required to plan their courses according to the information available in the course memo and in consultation with their academic advisor/School advisement unit.

4.1. Course Descriptions

Course descriptions facilitate students in course selection for the semester. They are provided by the respective departments/schools, and include information regarding course material, grading components and criteria. They are available in Zambeel before the commencement of enrollment phases of the upcoming semester.

4.2. Course Outlines

Course outlines are available to students enrolled in those courses via the Learning Management System (LMS). These enable the students to understand the detailed requirements of the courses as finalized by the instructors.

4.3. Online Course Evaluations by Students

Students submit online course evaluations at the end of each semester, prior to the final examination week. During the announced period, the course evaluation forms can be accessed and submitted at <https://lumseval.lums.edu.pk>.

The University provides course evaluation information of previous course offerings. This additional information further facilitates the students in course selection. The previous course evaluations are available at <http://portal.lums.edu.pk/RegistrarOffice>.

5. Phases of Course Registration

The semester course registration is processed in two phases, namely Enrollment Phases I and II. The Office of the Registrar publishes the semester course registration deadlines for the academic year, and lists details of the process and the respective closure dates for each phase.

Semester enrollment is finalized according to course capacity and eligibility criteria, as defined in the course memo by the respective departments/schools. During the phases of semester enrollment, students provisionally register in requisite courses through their Zambeel self-service.

5.1. Enrollment Phase I

This is a school-specific enrollment where students enroll in core and major elective courses according to enrollment appointments for their respective year/level, spread out over a few days.

5.2. Enrollment Phase II

This phase is for students to enroll in distribution and free elective courses. Students (all levels/majors/schools) add their requests by selecting the waitlist option and enrollment is processed according to a random selection. This ensures that all students have an equal chance of enrollment in the requested course.

6. Add/Drop and Withdrawal Periods for Regular Courses and Directed Coursework

6.1. Regular Semesters

For regular semesters, Add/Drop period runs for 11 days, starting from 3 calendar days before the start of the semester and continuing till 08 calendar days into the semester. During this period, students may Add/Drop courses. It is further divided into the following:

6.1.1. Add/drop period through Zambeel

Students can add, swap, or drop courses through their Zambeel accounts starting from 3 calendar days before the start of semester up to 7th day of the semester.

6.1.2. Add Only Day

After the expiry of add/drop through Zambeel, students have one day (8th day of the semester) on which they can only add or swap courses.

6.1.3. Drop Only period*

This period runs from the 9th day of the semester till the Friday of the 5th week of the semester. Students can drop courses up to their specified minimum enrollment limit (Please refer to Section titled Student Status and Course Load)

**The Drop Only period is further divided according to course drop charges. For further details, please refer to Office of Finance under Section 3: Administrative Offices*

Course rosters validating the students enrolled in the courses are communicated to the respective departments/schools at the end of the Add/Drop period, and again after Drop Only period. Students not enrolled in a particular course will not be allowed to attend classes for that course after the Add/Drop period, or after the Drop Only period for courses which they have dropped. Courses dropped within the Add/Drop period and Drop Only deadline do not appear on the transcript.

6.1.4. Withdrawal Period

After the expiry of the Drop Only deadline, students cannot drop but may withdraw from courses till the end of the 12th week of a regular semester, as announced in the academic calendar. Students can withdraw from courses via their Zambeel Self Service provided they maintain the minimum load requirement of 12 credit hours. W grade is automatically assigned by the system.

However, under special circumstances, students may be allowed to withdraw from more or all courses, bringing their total credit hours to below 12. In such cases, the student should route the request to OSA with proper documentation as to why this is necessary. Following OSA approval, the student will be withdrawn from the necessary courses and W will be assigned to all such courses and visible on the transcript.

Please note that within the duration of the undergraduate programme, a student can withdraw from a maximum of 6 courses (individually) with a W on transcript, as per defined policy. This condition is not applicable when all courses in a semester are withdrawn simultaneously owing to extenuating circumstances. The W grade is visible on the student's transcript and will not be removed even if the student successfully completes the course in a subsequent semester.

The fee for a withdrawn course will not be refunded.

After the course withdrawal deadline, as announced in the academic calendar, students do not have the option of discontinuing the courses. Discontinuation of a course will result in an F grade, or a grade assigned according to the percentage of course instruments attempted. This grade is visible on the transcript and will affect the CGPA.

Please note that withdrawing from all courses in a semester is not the same as applying to take a semester off before the start of classes. (Please refer to Section: Withdrawals)

If a student has received a DC penalty in a semester due to an allegation of academic misconduct by the Disciplinary Committee, then once the DC letter is issued, the student will not be allowed to withdraw from

that particular course unless the student is completely exonerated from the DC case. In case the student still proceeds, the W grade will be converted to an F grade irrespective of the actual penalty. Additionally, if a student withdraws from a course and is subsequently reported for academic misconduct in that course, any disciplinary penalty imposed by the DC will override the withdrawal status, and a W grade may be converted to an F grade as deemed appropriate by the Committee.

6.2. Summer Semester

Please note that there is no Drop Only period for the Summer semester. After the Add/Drop Period deadline, students cannot drop but may withdraw from courses during the Course Withdrawal Period. Students can withdraw from courses via their Zambeel Self Service. W grade is automatically assigned by the system. Students are advised to consider this before enrolling into the Summer semester.

Exceptional cases may be catered to with the recommendation of the Office of Student Affairs, subject to proper documentation being provided.

7. Student Status and Course Load

7.1. Regular Semester

Students are required to take a minimum of 12 credit hours to maintain their regular/active student status. First-year students (excluding those in MGS HSS and SBASSE) can take a maximum of 18 credit hours per semester. MGS HSS first-year students can take a maximum of 16 credit hours per semester, while SBASSE first-year students can take a maximum of 18.5 credit hours per semester. Undergraduate students in the Sophomore, Junior, and Senior categories can enroll in up to 20 credit hours in a regular semester.

Students are encouraged to consult with their school advisement unit to devise a balanced plan of study to complete the graduation requirements in a timely manner. This prevents a situation in which students need to take courses over and above the permissible semester limit, to graduate with their cohort. Students who end up in this situation will not necessarily be given permission or be granted priority for registering in courses.

However, in extreme cases (physical/psychological disability), at the recommendation of the Office of Student Support Services, the Office of the Registrar may allow a student to take less than 12 credit hours in one or more semesters. The decision is made on a case-to-case basis. Similarly, graduating students requiring less than 12 credit hours to graduate can also petition the Office of the Registrar for taking a smaller workload.

Under special circumstances, students may apply to take **one course** beyond the maximum permitted quota of 20 credits in a semester. Such students are required to have a CGPA of 3.40 or above, or they must be seniors who will be able to graduate within the next two semesters with this accommodation. These students must inform their school advisement unit and the Office of the Registrar so that they may be allowed permission to enroll in the extra credits.

7.2. Summer Semester

While there is no minimum enrollment limit for the optional Summer semester, students are allowed to take a maximum of 8 credits in the Summer semester.

8. Directed Course Work (Courses Requiring Exceptional Method of Registration)

The undergraduate programme allows students to enrich their independent work/research exposure through Directed Course Work. The enrollment procedure for Senior Year Project, Research Project and Independent Study varies from the normal method of registration and requires prior approval. For all such courses, it is the responsibility of the student to ensure that all the formalities of course registration are complete within the deadline specified by the Office of the Registrar.

The different categories for Directed Course Work (DCW) are listed below:

- Independent Study
- Research Project
- Senior Year Project
- Internship

Cumulatively, the Directed Course Work credits (all listed categories included) can be a maximum of 12 credit hours within the degree tenure. For example, Biology and HSS Senior Projects are of 8 credit hours. They are spread as 4+4 credits across two semesters. The students taking these Senior Projects can enroll in a maximum of only 4 additional Directed Course Work credit hours (Independent Study, Research Project, Internship) in their undergraduate academic career.

Students can provisionally register Directed Course Work (Senior Project, Independent Study, etc.) during enrollment phases, using their *Zambeel* self-service. Prior to the registering of courses, the students are required to submit a DCW online application in Zambeel.

Applications for DCW registrations open in two rounds in regular semesters as follows:

- First round starts 3 weeks before the commencement of Enrollment Phase I
- Second round starts 1 week before commencement of Add/Drop period

Enrollment in Directed Course Work is confirmed once the online application is approved by the respective department coordinator, faculty supervisor and verified by the Office of the Registrar.

Directed Course Work grades submission deadline is within the semester absolute grading deadline. If the DCW grade is pending, instructor can assign 'I' grade. After the semester absolute grading deadline, a list of students with 'I' grade is sent to the respective department coordinator, instructor, and students, mentioning the 6 weeks' deadline (after the absolute grading deadline). In case the grade is not received by this deadline, two weeks' extension deadline is communicated. After this buffer, an 'F' is assigned in the system.

Opting for Directed Course Work Remotely:

The following policy applies if a student wants to register for Directed Course Work, while on visiting/exchange programme in another University or the supervisor is not on campus:

- The student must seek prior approval from the respective faculty supervisor.
- The school/department will decide whether to allow/deny the distant DCW registration.
- In case the student is on an exchange programme, the student will have two supervisors, one in LUMS and one at the institute that the student is attending on an exchange programme.
- Students will present the DCW twice, once while on exchange and again on return to LUMS.

- A final grade is awarded by the respective department once both (external & internal) evaluations are complete.
- On intimation from the department, the Office of the Registrar uploads the final grade of the student in the system.
- For remote DCW during an exchange semester, the respective semester term is activated, and the fee is charged accordingly. Students must apply for a semester off before leaving for exchange for record purposes.
- Students participating in the remote/distant DCW during an exchange semester need not be in a group. It could be taken individually.
- Only the Senior Project is eligible for remote Directed Course Work (DCW), as it is letter-graded. Independent Study and DRP are assessed on a Pass/Fail basis and are therefore not eligible for remote Directed Course Work.

8.1. Senior Project (SPROJ)

During the Senior year, students can opt for a Senior Project (SPROJ) under the guidance of a faculty supervisor. SPROJ provides students with the opportunity to use their foundational academic skills and content knowledge to gain new, deeper levels of understanding. The project must challenge the student's ability and the chosen topic needs to be of significant value to the student, the school, and the community. This directed learning experience involves thinking analytically, logically, and creatively integrating experience and knowledge to form reasoned judgements and solve problems that will help direct future career and educational opportunities.

Important points to consider while opting for SPROJ:

- Senior Project (SPROJ) can be taken in either or both last two regular semesters.
- In case the SPROJ is spread over two semesters, the student must enroll for SPROJ A in the Fall semester and SPROJ B in the Spring semester of the final year of the degree programme.
- If the SPROJ is spread over two semesters and the student enrolls in SPROJ A in the Spring semester and SPROJ B in the Summer semester, then the student is eligible to attend the convocation next year, subject to the completion of degree requirements.
- Senior Project can only be taken for the whole duration of summer semesters (8 weeks).
- A student can take only one SPROJ during his/her degree programme tenure.
- A student can enroll in maximum 4 credit hours' SPROJ in a single semester.
- SPROJ is letter graded.
- Senior Project can range from 3 to 6 credit hours depending on the scope/rigor defined by the respective department/school, exceptionally (BIO, HSS & LAW) SPROJ can be of 8 (4+4) credit hours.
- ECON SPROJ can be of 4 (one semester) or 8 (two semesters) credit hours.
- If it is a 6-credit hour SPROJ, then it is split as SPROJ A and SPROJ B, with the respective assigned codes. It is 3+3 credits over two semesters. However, depending on the rigor involved, it can be 4+4, to be completed in two semesters.
- If SPROJ is spread across two semesters, then it is evaluated once completed and the assigned letter grade is uploaded for SPROJ A and B (unless defined by the department).
- SPROJ group members generally range from 2-8 (not individually) depending upon the complexity and workload approved by the respective department/school.
- Depending on the programme structure, Senior Project can be mandatory or optional.
- In the case of optional SPROJ, if the student chooses a Senior Project with a major area of study relevant to his/her declared major, it counts towards the respective major elective requirement. If the student

chooses a SPROJ with a major area of study different from his/her declared major, it counts towards free elective requirement.

- Economics SPROJ counts towards free electives.
- The SPROJ prefix for registration is according to the area of study.

If a group of students choose an SPROJ area different from their declared major, they need to include at least one member in the group with a declared major relevant to the SPROJ chosen area. For example, if students majoring in Economics wish to do SPROJ in ACF, then at least one group member should be an ACF major. Such students are also required to select two supervisors: one from their own area of study and the other from the selected SPROJ area. Such SPROJ applications are approved by the latter supervisor.

- In case, if an SPROJ is not a major core requirement and the credits go in the free electives bin then the requirement of a co-supervisor is not mandatory while pursuing an SPROJ across schools. Such students can do an individual SPROJ outside their major/department with the approval of the department/school with which they are pursuing the SPROJ.

Note: If the Senior Project is to be completed in two semesters, then the final grade for SPROJ A & B (registered in two consecutive semesters) is assigned at the end of the second semester. In the interim, there will be no grade assigned for SPROJ A.

In case a multi-term project is not completed within the absolute grading deadline for the former term in which SPROJ B was enrolled, then an I grade may be assigned if 90% of the coursework is complete.

8.2. Independent Study (IS)

Independent Study is an individual effort to study a particular area in Senior year. It may be opted to complete a student's degree requirements, in case an alternate/appropriate course in that subject area is not offered in that academic year. Students who opt for an Independent Study will individually complete the requirements under the supervision of an assigned faculty member. They will have to take an exam or submit a report at the end of the semester in order to secure a Pass grade in the Independent Study.

Important points to consider while opting for Independent Study:

- A student who has attained Senior status can register for an Independent Study of at most 2 credit hours in a semester, only in case there is no regular course available to fulfil the credit hour or area requirement.
- Students within the allowed programme tenure can take a maximum of 4 Independent Study credit hours (spread over two semesters) towards the completion of their Bachelor's degree requirements.
- One (1) credit hour Independent Study can be taken in either or both summer sessions. Or at most two (2) credit hour independent study can be taken for the whole duration of summer semester.
- Independent Study can be done only individually and not in a group.
- Independent Study is graded Pass/Fail.
- A Failing grade will affect the CGPA with no credit given, while a Pass grade will contribute towards the earned credits and will not affect the CGPA.

8.3. Directed Research Project (DRP)

In the Junior year, students can opt for a Directed Research Project individually or in a group. Students are enrolled with a supervisor to mentor the project and guide the students to use their creativity, initiative, and

develop the research skills needed for further study or work. Upon successful completion, students can take their research further as a Senior Year Project for deeper level of understanding.

Important points to consider while opting for Directed Research Project:

- A student who has attained Junior/Senior status can register for a Directed Research Project of at most 2 credit hours in a semester.
- Students can take a maximum of 4 DRP credit hours towards the completion of their Bachelor's degree requirements, within the allowed programme tenure.
- One (1) credit hour DRP can be taken in either or both summer sessions. Or at most two (2) credit hour DRP can be taken for the whole duration of Summer semester.
- DRP can be done individually or in a group of maximum 5 members.
- DRP is graded as Pass/Fail.
- A Failing grade will affect the CGPA with no credit given, while a Pass grade will contribute towards the earned credits and will not affect the CGPA.

8.4. ACF Internship

ACF Internship (duration: 6-8 Weeks) is a mandatory degree requirement for ACF major students. However, doing an internship is optional for MGS majors. It is supervised work experience that provides valuable educational exposure to augment the academic learning of a student. A student may work as an intern for profit and non-profit sectors to earn specified academic credits. ACF internships offer students a hands-on opportunity to work in their desired field. They learn how their course of study applies to the real world, making them stronger candidates for jobs after graduation.

Important points to consider while opting for ACF Internship:

- ACF internship is a mandatory degree requirement for all ACF students. Students earn four semester credit hours on successful completion of the internship.
- ACF Internship is graded as Pass/Fail.
- A Failing grade will affect the CGPA with no credits given while a Pass grade will contribute towards the earned credits and will not affect the CGPA.

9. Courses that Require a Separate Mention

The following courses have different grading/evaluation criteria.

9.1. Remedial Course in Writing & Communication

The University, following its process, may require certain students to improve their English comprehension and communication skills by taking a remedial course SS 100A Introduction to Writing (IW). The following rules apply in this case:

- Students requiring IW are pre-enrolled on the department/school's recommendation in this course, in their first Fall semester.
- IW is a two-credit hour course. Students are advised to plan their semester workload in such a way that they are well able to focus on this remedial course.
- IW counts towards Free Elective courses as specified in the degree requirement.
- It is letter graded.
- Students who fail this remedial course in the Fall are enrolled in SS 100 in Spring with the condition that they secure a C and above in SS 100. If they fail to do so, they have to repeat SS 100 A and subsequently SS 100

- SS 100 A is offered only in the FALL semester.

9.2. Language Courses

The University offers many language courses. The following rules apply in the case of language courses:

- Language courses are offered in the prefix LANG.
- They are letter graded.
- Language courses do not count towards the distribution requirement.
- They count as Free Elective courses as specified in the degree requirement.

9.3. Waiver for Islamic Studies

Non-Muslim students are exempted from taking Islamic Studies, which is a core course for all undergraduate programmes. These students can take the specified course/Independent study approved as a substitute by the HSS department. Please contact your school's advisement unit for further information.

10. Pre-Requisites of Courses

The enrollment phases for the next semester commence prior to the final examinations of the current semester.

The registration system recognizes whether the pre-requisite course has been taken by the student or is in-progress. Ideally, all pre-requisite requirements for a course should be met before registering for the course. This may not be possible if a course and its pre-requisite course are offered in consecutive semesters and the result of the pre-requisite has not been declared at the time of registration. In the event that the student fails the pre-requisite course, it is his responsibility to drop the subsequent course unless permission has been obtained from the school's advisement unit to continue with the course and repeat the pre-requisite course at a later stage.

Pre-requisite and subsequent courses (co-requisites) cannot be taken together in a semester.

11. Cross-listed Courses

Some courses are listed in more than one subject area with separate course codes for the relevant areas. A student may register for the course with only one prefix and the course will count towards the chosen area for the duration of the programme. The chosen course code will not be changed in Zambeel after the Add/Drop period. Students should carefully select the correct prefix while registering in cross-listed courses. Cross-listed courses cannot be re-labelled with a different prefix on the transcript.

12. Course Repeat and Replace Policy

Students may repeat courses with grade replacement. The grades of both the attempts are visible on the transcript but only the best grade is included in the term and cumulative grade point average (CGPA) calculations.

- Students have the option to repeat a course if they have obtained C- or below (including F) grade.
- Best grade counts in the CGPA calculation. The credits of repeated courses count once towards successfully completed credit hours, but all grades are visible on the transcript.
- Students who repeat a course in which they have obtained a C or above grade will fall under **all grades count policy**.

- The course grade is replaced only if the same course is repeated. Exception to this rule is only given by the head of department/programme director, provided the course repeated for replacement is substantially similar to the original course. This exception is applicable only in case the original course (core/mandatory course for graduation) is not being offered again by the department.
- Repeated courses **do not** count towards **honours and awards**, throughout the degree tenure.
- Students who receive an F grade in a core course must repeat it as a graduation requirement.

12.1. Policy for Thrice Failure in a Core Course

A student has a maximum of two attempts to clear an F grade in a core course inclusive of *University Core, School Core, and Major core*. The courses which are outside of these categories but are designated as core courses that form part of the graduation requirements for a particular major, will also fall under this thrice failure policy and a student failing such a course three times will be separated from the university. If separated for the first time, such students can apply for readmission and readmission conditions under the section 'Academic Standing' will apply.

13. Course Audit

Course auditing implies that students can sit through classes but are not eligible to participate actively in class discussions and assignments, nor can they take midterm and/or final examinations. No grade shall be assigned to the student. Other details are:

- Audited courses do not appear on the transcript.
- There is no separate University certificate for course audit.
- To audit the course, students must apply to the Office of the Registrar on the prescribed form available at <http://portal.lums.edu.pk/RegistrarOffice>. The course audit forms must be submitted by the 7th day of the semester. In case of Summer semester, which is compressed, forms should be submitted by the first day of classes.
- Permission is granted on a first-come first-serve basis, depending upon the availability of seats in the course.
- Certain courses may be closed for auditing at the request of the instructor.
- Students may audit courses in a semester even if they have taken the semester off.
- Students cannot audit courses if they have been separated from the University and await readmission.
- Students may take the course as a regular course after auditing it in a previous semester.
- Auditing a course does not merit availing any University facility. Such students are not provided with hostel accommodation.
- Students wishing to audit a course are required to pay the requisite fee. (Please refer to the Office of Finance for further details).

14. Course Cancellation

Following the University guidelines and as communicated by the respective departments/schools, the Office of the Registrar processes the cancellation of courses offered in a semester. This decision may be taken at any time during initial course registration or Add/Drop period.

15. Major Declaration and Allocation Process for First year students

Beginning with the Batch of 2029, MGSHTS students will be eligible to declare their major at the end of their first year. This is an indication that they have spent a year at the University in their admitted school/programme and wish to continue as such for the rest of their stay at LUMS, intending to graduate

with their allocated major. Major declaration preferences are submitted through Zambeel at the end of Spring semester each year. In case first year students wish to change their school/programme, they have the option to apply for the change simultaneously with a major declaration. Students are required to submit their online application along with the completed documents listed in Section 15.5 below.

The major allocation decisions are based on the criteria/requirements as defined by the respective departments/schools, listed in Section 15.1 through 15.4. These decisions are communicated to the students by the Office of the Registrar. The major allocation process is completed by mid-July.

The allocation of a major is based on the student's cumulative grade point average (CGPA), available space and the fulfilment of any other requirements laid down by the respective departments. The student is assigned a major at the end of the Spring semester of first year or as specified by respective school. Summer semester CGPA is not included in major allocation.

The major selection requirements of specific Schools are discussed in detail below:

15.1. SDSB First Year Students Major Declaration

SDSB first year students, as per university policy, are required to select preferences for major declaration through their Zambeel self-service at the end of the first academic year at LUMS. The students are allocated a major according to the defined eligibility criteria.

Students have to select from the list of the following majors:

- **Accounting and Finance**
- **Management Science**

For further details regarding SDSB major declaration criteria, please refer to the respective school section under Section 2: Academic Departments and Programme Outlines

15.2. MGSBSS Major Declaration

MGSBSS first year students select preferences for major declaration online through Zambeel self-service at the end of their first year at LUMS. Depending on the availability of space and cut-off CGPA, the students are allocated a major according to the defined eligibility criteria.

Students have to select from the list of the following majors:

- **Anthropology / Sociology**
- **Psychology**
- **English**
- **History**
- **Political Science**
- **Comparative Literature and Creative Arts (CLCA)**
- **Economics**
- **Economics & Mathematics:** CGPA of 3.3 or better, and a minimum B grade in MATH 101 & MATH 120 / Math 120H
- **Politics & Economics**
- **Economics, Data and Computer Science**

For further details regarding MGSJSS major declaration criteria, please refer to respective school section under Section 2: Academic Departments and Programme Outlines

15.3. SBASSE First Year Students Major Declaration

SBASSE first year students apply online through *Zambee!* for a choice of major. Students whose cumulative GPA at the end of the First year is less than 2.00 in a specific group of subjects designated by the department for major declaration may at the discretion of the department, be refused permission to select that major.

Major Declaration Preferences

Students who have an undeclared major in SBASSE are required to provide a **minimum of three** preferences for major allocation. School will communicate the final major allocation decision based on criteria mentioned below.

Inter-School Transfer Requirements

For Inter-School transfer into SBASSE, student can give the **minimum of two (2)** preferences. The school will share the final decision.

Policy Requirements for SBASSE Majors Declaration and Inter-School Transfer (Freshman)

Major	Seats	CGPA	Specific Courses
Biology	Open	2.00 or better	Biology and Chemistry courses
Chemistry	Open	2.00 or better	A minimum of C grade in Chemistry courses
Chemical Engineering	Open	2.00 or better	CHEM 101, (MATH 101/MATH 101H), (MATH 120/MATH 120H/MATH 121), and CS 100
Computer Science	Open	2.00 or better	MATH 101/MATH 101H, MATH 120/MATH 120H/MATH 121 & CS 100.
Economics and Mathematics	Open	2.00 or better	A minimum of B grade in MATH 101/MATH 101H and MATH 120/MATH 120 H/MATH 121
Electrical Engineering	Open	2.00 or better	MATH 101/MATH101H), MATH 120/MATH120H/MATH121, PHY 101, PHY 104 and CS 100
Mathematics	Open	2.00 or better	MATH 101/MATH 101H and MATH 120/MATH 120H/MATH 121
Physics	Open	2.00 or better	MATH 101/MATH 101H, MATH 120/MATH 120H/MATH 121, PHY 101 and PHY 104

Requirements for Major Declaration (Sophomores)

Computer Science:

A min. CGPA of 2.0 in CS-100, CS-200 and CS-202 for students declaring their major at the end of Sophomore year (Spring Semester). These students must also have obtained passing grades in MATH-101/101H and MATH-120/120H/MATH-121

Inter School Transfer Requirements for Computer Science:

- i. Inter-School Transfers are subject to the availability of seats in the BS-CS program. In the case of limited seats, a merit list will be formed based on the above criteria.
However, Interschool transfers to CS should either be made directly or require students who initially transferred to other SSE majors to meet the following 3.3 GPA criteria before transferring to CS.
- ii. End of Freshmen year application for inter-school transfer into **CS major**: CGPA of 3.3 in MATH 101/MATH 101H, MATH 120/MATH 120H/MATH 121 & CS 100.
- iii. End of Sophomore year application for inter-school transfer into **CS major**: CGPA of 3.3 in CS-100, CS-200, CS-202, MATH 101 and MATH-120.
- iv. Non-SSE students from a pre-medical or non-math background can declare their major at the end of their freshman summer, provided they fulfill the school's criteria for the respective years (stated above).

The criteria will remain the same for all other Inter-School Transfers and Major Change/Declaration.

Once first year students have been assigned a major, they are re-assigned faculty advisors in their majors. Major-relevant academic advisors are better suited to guide them in their subsequent studies, formulate a stepwise course plan and help them choose a career. The approval of these advisors must be obtained for appropriate course registration in the following years.

SBASSE sophomores, who will be changing majors within school in this cycle can choose **minimum of 1 one and maximum of two** preferences. School will communicate the final major change decision based on criteria mentioned in Undergraduate Student Handbook.

15.4. SAHSOL First Year Students Undertaking Submission

SAHSOL first year students are admitted to the Law programme as Law majors from the first day at LUMS. The Law students re-declare their major as Law by submitting undertaking through their Zambeel self-service at the end of the first year. In case Law students wish to change their school/programme at the end of the first year, the availability of space and cut off CGPA criteria in addition to rules/requirements defined by the prospective school/department apply. Students wishing to transfer into the Law programme need to take Law 101 and Law 102 before applying for a transfer. Acceptance into the programme will be subject to the availability of seats and other criteria established by SAHSOL administration.

15.5. Change in Major/School

After due consultation with the faculty advisor and completion of all formal requirements of the process, students can apply for a subsequent change in major/school at the end of the academic year. They are required to submit the major change/inter-school transfer preferences via their Zambeel Self Service.

The Office of the Registrar needs to receive the online major/school change applications latest by mid-June. The decision regarding acceptance in the major/programme is finalized based on the availability of space, student's CGPA and the fulfilment of requirements set by the respective School/Department. This process is expected to be completed by mid-July.

The application for Major Change/Inter-school transfer is to be submitted online with the following documents:

- Semester by semester course plan to complete graduation requirements, prepared in consultation with the respective departmental coordinator and faculty advisor.
- Reason for change of major/school along with student's undertaking of financial implications in case of non-completion of the degree requirements within eight regular semesters, taking full responsibility of the fee payment for the additional semesters required.
- Parent/guardian's undertaking of financial implications.
- Parent/guardian's CNIC copy.

Please note that all documentary evidence must be furnished latest by the end of April, to process major/school change applications. Incomplete forms will not be entertained. Subsequent to the major declaration/allocation and school/major change (if applicable) at the end of the First year, a change in school/major is allowed **only once** during the remaining tenure of the degree programme.

For this subsequent school change, a non-refundable processing fee of Rs. 30,000 is charged.

University policy for NOP students and students availing financial aid will apply in case of school/major transfer.

In case of inter-school/inter-programme transfer across all schools/majors:

- All grades count in the CGPA.
- The roll number is changed according to the programme requirement.

16. Joint Major

Joint majors provide the richness of two undergraduate major areas. Currently, the University offers Joint Majors in Political Science and Economics, Economics and Mathematics and Economics, Data and Computer Science. The degree requirements for Joint Majors are defined and completed within the minimum 130-credit hour undergraduate degree completion requirement.

17. Double Major

After having declared a major, students may opt for a second major (space and fulfilment of other requirements permitting) in their Junior/Senior year, (for SBASSE, no later than the start of sixth semester) after due consultation with their faculty advisors. Completion of requirements of both majors does not automatically allow a student to claim a double major degree without declaring it beforehand in a timely manner.

Students need to fulfil the following requirements for a double major:

- Successful completion of minimum 160 credit hours.
- Students pursuing a double major need to complete the University core and the University distribution requirements according to the primary declared major.
- The students are required to complete the core and elective requirements of their primary major.
- They also must complete the core and elective requirements of their secondary chosen major.
- Students must take free electives to complete the minimum degree requirement of 160 credit hours.
- The students are required to have a minimum CGPA of 2.50 at the time of declaring a second major, apart from SBASSE, where the minimum requirement is 3.00.
- The maximum time allowed to complete the requirements of the double major is six years from the year of admission at LUMS.

- Students wishing to pursue a double major need to fill the double major declaration form available at the Office of the Registrar portal: <http://portal.lums.edu.pk/RegistrarOffice>.
- Students enrolled in B.A.-LLB (Honours) Programme are not allowed to opt for a double major. This also applies to students enrolled in other schools who wish to opt for a double major in SAHSOL.

For further information on *Double Major at SBASSE (both inbound/outbound students)*, please see Section 2: Academic Departments and Programme Outlines.

18. Minor Declaration

A University minor serves to broaden students' horizons and expand the range of options available to them. Students can complement the study of the major by selecting a minor in an adjacent or related area, thereby sharpening their understanding and deepening the knowledge acquired in their principal area of specialization. A minor can also serve as a basis for and facilitate interdisciplinary study and inquiry. Students also have the option of selecting a minor in an area completely unrelated to their major and can elect to explore areas of interest by selecting a discipline much farther afield. Students are in no way constrained or restricted in their choice of a minor and are not obliged to justify their selection by demonstrating its relevance to a particular field or area of specialization.

Minors are being offered in the following University approved areas under their respective departments:

- Anthropology and Sociology
- Biology
- Chemistry
- Comparative Literature and Creative Arts
- Computational Finance
- Computer Science
- Computer Engineering
- Curriculum, Instruction and Assessment
- Economics
- Education
- Education Policy, Politics and Governance
- English
- Environmental Studies
- Gender and Sexuality Studies (GSS)
- History
- Inclusive Education
- Mathematics
- Philosophy
- Physics
- Political Science
- Psychology
- Public Management
- Quantum Technologies
- Robotics
- Study of Religion

For further information regarding minors please refer to Section 2: Academic Departments and Programme Outlines.

18.1. Rules for Minors

The following rules are applicable to Minors at LUMS:

1. Students intending to minor in a particular area of study should select from the list of minors approved by the University.
2. Students intending to complete a minor should successfully complete a minimum of 6 regular courses, carrying 3 or 4 credits each (for a total ranging from 18 to 24 credit hours), in some combination of required core courses (100, 200 level) and electives.
3. Senior Projects, Independent Studies, or courses with fewer than 3 credits do not count towards the minor.
4. Students who intend to complete a minor should achieve a minimum GPA of 2.75 in that area of study (in the six or more courses that make up the minor).
5. Students intending to minor in a particular area cannot count a 100-level course as an elective.
6. Students intending to minor in an area of study must complete at least two electives at the 300 level or higher in that area.
7. The (three) courses that make up the University core, Writing & Communication, Pakistan Studies, and Islamic Studies cannot contribute towards the minor.
8. Of the courses that satisfy the In-Group and Out-Group requirements, no more than one can be used to fulfil the requirements for the minor.
9. A course that is cross listed with another discipline can satisfy the requirements for a major or a minor but cannot be counted twice.
10. Students intending to minor in an area in SSE cannot count more than one SSE core course towards the minor.
11. Political Science and Economics (joint major) cannot minor in either Political Science or Economics.
12. Pass/Fail courses do not count towards fulfilment of a minor.
13. Economics and Mathematics (joint major) cannot minor in either Economics or Mathematics.
14. Economics, Data and Computer Science (joint major) cannot minor in either Economics or Computer Science.
15. The minor requirements can be completed within the credit limit of 130/138 by following a carefully chalked course plan and by taking appropriate courses as free electives to count towards the minor. These students might need to take additional credit hours for the completion of the minor requirements.
16. The minor will only be displayed on the final transcript, NOT on the degree.
17. Students will not be given a preference in course enrollment based on their minor requirements.
18. The minor is a look back option and should be declared only at the time of graduation, once the graduation requirements are fulfilled, by submitting the minor form available at <https://zambeel.lums.edu.pk>. A student cannot declare a minor once the GAF has been submitted as the transcript is already finalized and hence cannot be changed.

All schools have additional requirements for minors, and students intending to pursue a minor must ensure that they acquaint themselves with the policy regarding minors as defined by the respective schools.

For further details, please refer to Section 2: Academic Departments and Programme Outlines.

19. Withdrawals

Withdrawals are broadly categorized as:

1. Voluntary Withdrawal from the University and programme results in the permanent cancellation of the student's active status at LUMS.
2. Semester off from the campus results in withdrawal from that semester only and deactivation of the student's enrolled status for that semester.
3. Withdrawal from all courses in a semester, approved by OSA, owing to extenuating circumstances, within the drop only deadline, without 'W' grades on the transcript.
4. Withdrawal from all courses in a semester, approved by OSA, owing to extenuating circumstances, within the withdrawal deadline, resulting in all 'W' grades on the transcript for that particular semester.
5. Withdrawal from a course in a semester resulting in a 'W' grade on the transcript for that particular course.

Note: Withdrawing from all courses in a semester is **NOT** equivalent to taking a semester off.

19.1. Voluntary Withdrawal from the University and Programme

Students may withdraw voluntarily from the University/programme at any time during the semester. Students wishing to withdraw must inform their faculty advisor in person and submit an online application via their Zambeel self-service, citing the reason for withdrawal. A system-generated notification is sent to relevant offices of the University as necessary. The online clearance process is initiated by the Office of the Registrar and the student is required to follow this process, starting with the return of the LUMS Smart card to the Campus Security department.

Once this process is concluded and the student's university withdrawal request is approved, the student's status is permanently deactivated, and the student is no longer deemed a regular student at LUMS. A student who withdraws from the university is eligible to apply afresh or as a transfer student. In the case of a transfer student, the student must take admission in another HEC- recognized institution and complete one year of study before applying to LUMS.

19.2. Semester off from Campus

Students may plan to take a regular semester off by submitting an online application via their Zambeel self-service and in consultation with their faculty advisor/school advising unit. In order that this application may be acknowledged and processed by the aforementioned authorities in time, the last day to apply for this will be the day before the commencement of classes for that semester. In case no application is received, and student is not enrolled in courses, it would be treated as Unauthorized Withdrawal.

- The probationary status of a student remains the same on re-joining LUMS after taking a semester off.
- Taking a semester off may result in a delay in graduation up to a year or even more.
- In case of structured programmes, taking a semester off is discouraged and should be done after consulting the school's advising unit.
- A student cannot take more than two consecutive regular semesters off.
- First year students are not allowed to withdraw from their first semester.
- Any semesters taken off will be included in the required degree completion time limit. It is the student's responsibility to complete the degree requirements within the specified time for the respective programme.
- In case a student submits the semester off application after the announced deadline, the fee will be charged based on the student's enrollment, in accordance with the timeline shared by the Finance Department.

As the summer semester is optional, there is no need for students to apply for a semester off.

19.3. Withdrawal from all courses in a semester

In extreme emergencies, students can voluntarily withdraw from a semester till the last day of course withdrawal period (as mentioned in the university timeline) , provided there are medical grounds or circumstances beyond their control. Students are required to submit the online withdrawal application via their Zambeel self-service and upload proper documentation as mentioned below:

a) In the case of circumstances beyond students' control (such as family emergencies or financial hardships, etc.), supporting documents must be uploaded to verify the issue. These documents could include letters from family members, legal documents, or any other relevant evidence to substantiate the claim.

b) For medical or health-related issues, students are required to submit treating physician or psychiatrist prescription and recommendation to justify their need for withdrawal. This could involve medical recommendation, treatment plans, or any other medical documentation supporting the student's condition and its impact on their ability to continue with their studies.

These documents are then verified by the Office of Student Affairs (OSA), which approves or declines the application. If the documentation provided is based on misrepresentation, it is treated as a serious disciplinary matter and the student can be separated from the university. Students on probation, who are allowed to withdraw from a semester, can resume their studies in the following semester with their probationary status unchanged.

Once an application for withdrawal is approved, the Office of Student Affairs (OSA) issues a withdrawal letter to the student. In some cases, students with medical or health-related issues may be granted a withdrawal with conditions for rejoining.

For details on the rejoining procedure, please refer to the section| Rejoining Process for Semester Withdrawals on Health Grounds.

Note: The degree completion time criterion is not relaxed

19.4. Withdrawal from a course in a semester

Students may withdraw from courses till the end of the 12th week of a regular semester, as announced in the academic calendar. Students can withdraw from courses via their Zambeel Self Service provided they maintain the minimum load requirement of 12 credit hours. "W" grade is automatically assigned by the system.

19.5. Involuntary Withdrawal

In extreme cases, the University may insist on a student's involuntary withdrawal from the semester or the program if, according to the judgment of the University Officials, the student:

- Poses a threat to the lives or safety of themselves or other members of the LUMS community.
- Has a medical/psychological condition that could likely worsen due to the academic and/or living environment at LUMS.
- Exhibits behavior stemming from a medical/psychological condition that seriously interferes with their own education and that of other LUMS community members.
- The involuntary withdrawal process is initiated after thorough verification by the school's Advising Unit, student counselor, and other relevant University officials.

19.5.1. Involuntary Withdrawal from the University

On processing of the involuntary withdrawal, the student status is permanently deactivated, and the student is no longer deemed a regular LUMS student.

19.5.2. Involuntary Withdrawal from the Semester

In cases where students are determined to be capable of recovery or coping, they are given involuntary semester withdrawal. Such students are allowed to rejoin after that specific period based on their compliance with the rejoining conditions and verification by the OSA.

For further details on the rejoining procedure, please refer to section | Rejoining Process for Semester Withdrawals on Health Grounds.

Note: The degree completion time criterion is not relaxed.

19.6. Rejoining Process for Semester Withdrawals on Health Grounds

OSA may grant students a semester withdrawal for health or other reasons; in such circumstances, rejoining conditions may be given. Students withdrawn for health reasons, when planning to rejoin, are required to submit treatment documentation and an academic plan approved by the school's advising unit to the OSA at least two weeks prior to the start of the semester they intend to rejoin. These requirements are verified by the OSA, and upon successful verification of documentation, students are required to undergo an in-person or online rejoining assessment facilitated by either the Counselling and Psychological Services (CAPS) or the LUMS Medical Center (LMC), coordinated via the OSA. Upon successful completion of the above steps and recommendation received by CAPS/LMC, and upon OSA approval the Office of Registrar may allow the student to resume studies.

19.6.1 Conditional Rejoining:

Conditional rejoining is given by the OSA on the following basis:

- a. Health Grounds: students who were given a semester withdrawal with specified rejoining conditions may be allowed to rejoin if, upon their return, their health requires ongoing engagement with a structured support or treatment plan to manage their challenges and support their academic progress and well-being. Students must adhere to the conditions outlined by the OSA to continue their studies.
- b. Geographical Connectivity Issues: In cases where the relevant offices or departments were unable to conduct an online rejoining assessment due to connectivity issues at the student's end — specifically arising from their geographical location — the OSA may allow conditional rejoining for the student to enroll in the upcoming semester. Students granted conditional rejoining on this basis must complete a mandatory assessment with LMC/CAPS during the add/drop week. The OSA will communicate this requirement via email. Failure to complete the assessment will result in the student's enrollment being jeopardized. In the event of noncompliance, the student will be administratively withdrawn from the semester, and the original rejoining conditions will remain in effect.

19.7. Conditional Approval of Continued Enrollment

Conditional approval of continued enrollment is required for students whose health challenges (psychological and/or physical) may not warrant a semester withdrawal but are nevertheless significant enough to impact their academic and social functioning on campus to an extent where ongoing and regular engagement with health services and professionals is deemed necessary, as determined by Office of Student Affairs (OSA).

This requires students to have ongoing engagement with a structured support/treatment plan and to keep OSA proactively apprised of this engagement. This arrangement allows the student to remain supported by

healthcare professionals, manage their symptoms appropriately and thereby have the opportunity to remain engaged in their studies. Where required, the student may also be referred to the Office of Accessibility and Inclusion (OAI) to explore and implement reasonable academic accommodations that support their continued participation in the academic environment.

Non-Compliance and Enrollment Review: Failure to meet the above requirements – including continued engagement with a support/treatment plan and to keep OSA proactively apprised of this engagement-- may lead to a formal review of the student's enrollment status. Potential outcomes include Involuntary semester withdrawal or other interventions to support student's well-being.

19.8. Unauthorized Withdrawal

Students who leave the University without prior permission to withdraw are considered to have resigned and their admission stands cancelled.

A maximum of 3 attempts are made via email and a letter to contact such students who are absent from the University without prior information. Students are asked to enroll in their courses within the enrollment period or to take a semester off.

Finally, a warning letter and an email is issued to students stating that they are required to complete documentation to take the semester off. If they fail to respond within one week of issuance of this third warning, they are issued an unauthorized withdrawal letter from the programme.

In case it comes into university's knowledge that a LUMS student is simultaneously enrolled in another degree programme, he/she will be separated from LUMS with immediate effect.

20. Transfer Students

The following policy holds in case of transfer from other recognized institutions to LUMS undergraduate programme:

- Of the total graduation requirement of 130 credit hours, at least 72 credit hours must be completed at LUMS.
- If credit is given for courses taken at other educational institutions, then credit hours for these courses count towards the graduation requirement as well as major and/or minor requirements. A maximum of 58 credit hours can be transferred but the grades obtained in the completion of these credit hours are not used in the computation of the CGPA at LUMS.
- The Admissions Committee decides the credit limit that can be transferred to LUMS.
- Like other undergraduate students at LUMS, transfer students must graduate within a maximum of six consecutive calendar years from the date of admission. This duration is reduced by one calendar year for every 30 credit hours transferred to LUMS.
- The number of credit hours transferred and those completed at LUMS are used to determine student category, for example, first year student or sophomore.
- Upon admission to LUMS, for a transfer of credits, the student must submit the official, attested course outlines for courses taken at the previous institution to the Office of Admissions. Mere submission of course descriptions and reading material will not be accepted for course evaluation in lieu of proper course outlines. These are then forwarded to the Office of the Registrar for instructors' evaluations within respective departments. Transfer of credits can only be processed after approvals from the concerned departments, subject to satisfying the University defined guidelines below:
 - Course outline/content matching equivalent course at LUMS.
 - Classroom contact hours.

- Assignment rigour.
- Only courses with B and above grades are eligible for transfer, if approved.
- Only grade C and above that is achieved in courses taken at LUMS will be transferred for external incoming students. To ensure that the rigour of courses is upheld, if somebody takes up a course and gets into LUMS in the following year (next year), it will be at the discretion of the department/school to evaluate and decide whether the course content is still up-to-date and valid for a transfer. The credits of these courses are included in the completed credits, whereas the course grades are neither visible on the transcript nor included in the CGPA calculation.
- A course can only be transferred if evaluated as equivalent to a course offered at LUMS. **Credit given for the courses taken before admission to LUMS will not count towards the semester credit limit required for End of the Year awards.**
- A transfer student can request a re-evaluation of his/her course outline by sending an email to RO till the first week of the Add/Drop period of that semester. After Add/Drop, no student is allowed to request a second round of re-evaluation of the course outlines.

20.1. Transferred Credits for Courses Taken at Institutions under the LUMS Exchange Programme

Exchange programmes provide an opportunity for LUMS students to study abroad and for foreign students to study at LUMS. The Office of International Affairs (OIA) at LUMS manages student exchange programmes with specific universities renowned throughout the world. Details of these programmes are periodically announced to the student body at LUMS, and they are encouraged to apply. For more information, please refer to the section Office of International Affairs under Section 3: Administrative Offices

Before leaving, students should look at the courses they wish to take at the institution they will be visiting as exchange students. Ideally, detailed outlines should be submitted to the Office of International Affairs for onwards submission to the relevant LUMS departments for evaluation prior to leaving. Once approved, the Office of International Affairs must inform the Office of the Registrar, so these credits can be counted towards the degree requirements. Also, before proceeding, visiting/exchange students are required to inform the Office of the Registrar and apply for semester-off for the period they intend to take courses outside LUMS. The application is submitted on the approved form within the communicated deadline. Students may apply for semester off by submitting an online application via their Zambeel self-service.

Respective departments follow the below defined University criteria for course evaluation:

- Course outline/content matching an equivalent course at LUMS.
- Classroom contact hours.
- Assignment rigour.

On successful completion of the exchange programme students can apply for credit transfer, as per the evaluated course outlines, through the Office of the Registrar after submitting the hardcopy of the transcript of the exchange programme at Office of International Affairs (OIA).

Only courses with B and above grade are transferred. The credits of these courses are included in the completed credits, whereas the course grades are not included in the CGPA calculation. The maximum number of credits that can be transferred in one semester is equal to the credits which a student can take in a semester at LUMS.

The exchange students are charged as 'fee-per-credit-hour'. Credit hours are awarded to their courses after the pre-evaluation process has taken place, before students' departures, irrespective of the number of credit hours transferred upon their return. The following table covers the different scenarios related to the policy:

	Credits assigned by the host institution	Pre-evaluated credits by LUMS	Studied credits	Transferred credits	Chargeable credits
Scenario 1	16	16	16	12	16
Scenario 2	16	16	12	12	12
Scenario 3	20	16	16	16	16

In the event when a student drops a course, before taking classes or at the start of the semester, at the host institution (during the Add/Drop period), OIA informs RO and Finance Office to keep an updated record. Hence, students are charged for courses/credits that they finally enroll in as per scenarios provided in the table below:

	Credits assigned by the host institution	Pre-evaluated credits by LUMS	Added credits during exchange	Dropped credits during exchange	Studied credits	Transferred credits	Chargeable credits
Scenario 1	16	16	3	0	19	19	19
Scenario 2	16	16	0	3	13	13	13

A standard tuition fee of 16 Credit Hours is charged to the Outgoing International Exchange Students. If a student enrolls in less than or more than 16 credit hours at their host university, the fee is adjusted accordingly as per the pre-evaluated credit hours. If a student enrolls in more than 16 credit hours, they receive an additional fee voucher during the same semester. However, if the student enrolls in less than 16 credit hours then the adjustment is made in the following semester.

Credits taken during the exchange programme count towards the semester credits requirement for the End of the Year awards. In case, students qualify for the End of Year Awards, awards at the time of graduation and for top positions (based on the number of credits), only then, grades of the transferred courses are taken into consideration towards the CGPA/SCGPA requirement of equal to or greater than 3.60. This is to ensure that the university defined CGPA/SCGPA awards' criteria is maintained.

Grades of the courses transferred will not be shown on the transcript or count towards the Semester GPA/CGPA/SCGPA.

20.2. Transferred Credits for Courses Taken by LUMS Students at Other Institutions

Before leaving, students must obtain prior approval to take courses at other institutions as visiting students. This is done by providing detailed course outlines to their School Dean's office for onwards submission to the respective departments for evaluation. Once approved, the School Dean's office must inform the Office of the Registrar so these credits can be counted towards the degree requirements.

It is the student's responsibility to ensure that s/he takes only the approved courses at the host institution, to avoid rejection of course credit transfer by the respective departments, based on the course content provided later. Credits for these courses are transferred to LUMS subject to meeting the criteria of B grade

or above. On successful completion of the visiting semester, students can apply for credit transfer as per the evaluated course outlines, through the Office of the Registrar after submitting the hardcopy of transcript at RO.

Credits taken as visiting students count towards the semester credits requirement for the End of the Year awards. In case, students qualify for the End of Year Awards, awards at the time of graduation and for top positions (based on the number of credits), only then, grades of the transferred courses are taken into consideration towards the CGPA/SCGPA requirement of equal to or greater than 3.60. This is to ensure that the university defined CGPA/SCGPA awards' criteria is maintained.

Graduating seniors wishing to take their final semester abroad are strongly advised to ensure that the courses they plan to take at the other institution will satisfy their remaining graduation requirements at LUMS. A failure to do so may result in a delay in graduation.

General Credit Transfer Guidelines applicable to all kinds of exchange programmes:

- i. If the course taken at another university is equivalent to a course in LUMS, it is transferred as equivalent to that course. Whereas, if the course is not exactly equivalent but has overlapping content, then it is transferred as a TC (Transferred course) and counts towards free elective requirements.
- ii. If a student has taken a 4 credit hours course at another university and the course is worth 3 credit hours at LUMS or vice versa, the minimum of the two will be transferred. If a core course of 4 credit has been given full credit by instructor after evaluation but the student has taken the course as 3 credit hours at the host university, the course will be transferred as 3 credit hour and 1 credit hour will be fulfilled by Independent Study.
- iii. The courses evaluated with fractional credit hours i.e., 2.5/3.5 etc. are rounded off to the nearest whole number.
- iv. The maximum number of credits that can be transferred in one semester is equal to the credits which a student is allowed to take in a semester at LUMS.
- v. In case a transcript represents grades as 'Excellent', 'Very good', 'Good' or 'Satisfactory', for transfer of credits only 'Excellent' and 'Very Good' grades meet the eligibility criteria of B or above grade and are transferred accordingly.
- vi. Pass/Fail graded courses are **NOT** transferred.

Grades of the courses transferred will not be shown on the transcript or count towards the Semester GPA/CGPA/SCGPA.

21. Academic Performance

Course grades are visible to the students in their Zambeel self-service once they are finalized by the course instructor and are then posted in Zambeel by the Office of the Registrar.

21.1. Student Evaluation

Students are formally evaluated by the faculty through appropriate instruments, as specified in the course outline. The defined course instruments are used in grading the course. These may typically include but are not limited to the following:

- Quizzes
- Assignments
- Projects

- Class participation
- Examinations

The instructor informs students about the weightage assigned to each instrument. This is mentioned in the course outline, and it is used for evaluating student performance in the course.

21.2. Grading Policy

Course grades are based on cumulative performance in defined instruments.

The final grades are assigned as follows:

Letter Grades and their Numeric Equivalents

	LETTER GRADE	NUMERIC EQUIVALENT
Exceptional	A+	4.0
Outstanding	A	4.0
Excellent	A-	3.7
Very Good	B+	3.3
Good	B	3.0
Average	B-	2.7
Satisfactory	C+	2.3
Low Pass	C	2.0
Marginal Pass	C-	1.7
Unsatisfactory	D	1.0
Pass	*P	-
Fail	F	0.0
Withdrawn	**W	-
Incomplete	***I	-
Transfer	****T	-

Grading at LUMS is based on relative performance. However, for some courses, absolute grading is used. This information is mentioned in the course outline.

A+ and **F** are absolute grades. The other grades (**A** to **D**) may be awarded based on relative performance.

***P** grade will contribute towards the earned credits and will not affect the CGPA.

****W** has no numeric equivalence and credit hours for withdrawn courses will not count towards the credit hours taken in the semester.

*****I** grade is awarded if a student has completed 90% of the directed course work (DCW) in the semester and the remaining is to be completed in 6-8 weeks into the next semester (Summer not counted). After the semester absolute grading deadline, a list of students with I grade is sent to the respective department coordinators/instructors and students, mentioning the 6 weeks' deadline. In case the grade is not received by this deadline, two weeks' extension deadline is communicated. After this buffer, an F is assigned on the system. If not repeated and replaced, F grade will count towards Semester GPA, CGPA and SCGPA. In the case of "I" grade, once the result of the directed course work (DCW) is announced, the I grade is replaced by attained grade. The semester GPA and CGPA are recomputed, and the student academic record is updated accordingly.

If the Senior Project is to be completed in two semesters, then the final grade for SPROJ A & B (registered in two consecutive semesters) is assigned at the end of the second semester. In the interim, there will be no grade assigned to SPROJ A.

In case a multi term project is not completed within the absolute grading deadline for the former term in which SPROJ B was enrolled, then an I grade may be assigned if 90% of the coursework is complete.

******T** in the transcript grades column, signifies that the respective course credits have been approved and transferred to LUMS.

21.3. Calculation of Semester GPA

Semester GPA, CGPA and SCGPA are calculated and are based on all courses' grades attained at LUMS. Accordingly, GPAs made visible on the transcript truly reflect the academic performance of a student.

The GPA in a particular semester, i.e., the Semester Grade Point Average, is calculated using the following method:

- The instructor assigns a certain letter grade to a student in a particular course. The numeric equivalent of that grade is provided in Table below.
- The grade points for all the courses taken in that particular semester are calculated and added together.
- The sum is then divided by the total number of credit hours taken in that semester. The quotient is the Semester GPA.

Semester GPA Calculation

COURSES TAKEN	LETTER GRADE	NUMERIC EQUIVALENT	COURSE CREDIT HOURS	GRADE POINTS
Course 1	A	4.0	4	16.0
Course 2	B+	3.3	4	13.2
Course 3	F	0.0	3	0.0
Course 4	W	-	3	-
Course 5	C+	2.3	4	9.2
TOTAL			15	38.4

$$\text{Semester GPA} = \frac{\text{Sum of Grade Points}}{\text{Total Credit Hours attempted}} = \frac{38.4}{15} = 2.56$$

While semester GPA is calculated using all credit hours attempted in the semester (15 in the above example), it is only the successfully completed credit hours (12 in the above example) that count towards the graduation requirements.

Note: Credit hours for withdrawn courses and courses with an F grade neither count towards graduation requirements nor towards the successfully completed credit hours for the semester.

21.4. Calculation of Cumulative GPA (CGPA)

The calculation of Cumulative Grade Point Average (CGPA) follows the same procedure. In this case the calculation is based on all the courses taken since joining the undergraduate programme.

An illustrative example with hypothetical data for CGPA calculation is worked out in the following tables:

CGPA Calculation (Semester 1)

COURSES TAKEN	LETTER GRADE	NUMERIC EQUIVALENT	COURSE CREDIT HOURS	GRADE POINTS
Course 1	A	4.0	4	16.0
Course 2	B+	3.3	4	13.2
Course 3	F	0.0	3	0.0
Course 4	W	-	3	-
Course 5	C+	2.3	4	9.2
TOTAL			15	38.4

$$\text{Semester GPA} = \frac{\text{Sum of Grade Points}}{\text{Total Credit Hours attempted}} = \frac{38.4}{15} = 2.56$$

In this example, the student has a semester GPA of 2.56 at the end of Semester 1. S/he has attempted 15 course credit hours and successfully completed 12 credit hours, as s/he failed in course 3.

CGPA Calculation (Semester 2)

COURSES TAKEN	LETTER GRADE	NUMERIC EQUIVALENT	COURSE CREDIT HOURS	GRADE POINTS
Course 6	A	4.0	3	12.00
Course 7	B-	2.7	4	10.8
Course 8	B+	3.3	3	9.9
Course 9	C+	2.3	3	6.9
TOTAL			13	39.6

$$\text{Semester GPA} = \frac{\text{Sum of Grade Points}}{\text{Total Credit Hours attempted}} = \frac{39.6}{13} = 3.04$$

$$\text{CGPA} = \frac{\text{Sum of All Grade Points}}{\text{Total Credit Hours attempted}} = \frac{38.4 + 39.6}{15 + 13} = 2.79$$

Furthermore, at the time of graduation, SCGPA (Specialization CGPA) is also visible on the transcript and is calculated on the basis of **major cores, major electives and free electives in the area of the major**.

Above mentioned method is applicable even if a student has taken courses beyond the defined credit limit requirement of a degree programme.

21.5. Grade Review Policy

There may be instances when a student believes that there is a discrepancy in his/her final grade. A review of grade plea is acceptable only in the case of a computational error.

If a student wishes to dispute a grade, he or she needs to contact the course instructor. If the instructor does not agree, the student may appeal to the head of the department and in extreme circumstances, to the Dean of the School within two weeks after the final grade is visible in his/her Zambeel self-service.

21.6. Grade Change Policy

In the grade review process, if the student's request is justified and change in grade is approved, **only the course instructor** may initiate a Grade Change Petition within the specified deadline, using the Grade Change Application on Zambeel (Zambeel → Navigator → Menu → Grade Change Petition → Initiate Grade Change Petition). Please note that **department staff or TAs are not authorized to initiate GCP on behalf of the instructor**.

The petition must be approved by both the **Head of Department** and the **School Dean** for the grade change to come into effect.

If the instructor is no longer associated with LUMS, the Head of Department is authorized to review and process the grade change request.

21.7. Course Pass/Fail Policy

The purpose of the course Pass/Fail policy is to provide students with the opportunity to take courses of interest outside of their major field of study and to learn without concern for the grade having an impact on their GPA. This policy encourages learning diversity and provides students, who have not decided upon a major, the opportunity to explore different areas of study.

The important points regarding this policy are:

- It is the prerogative of individual instructors as to whether they wish to allow their course to be taken as Pass/Fail. The student should only proceed to apply for Pass/Fail for a course if the instructor agrees.
- First year students in their first semester are excluded from this policy.
- A student can choose to designate a course as Pass/Fail till the same date as the Drop Only deadline.
- Pass/Fail courses can only count towards the free electives' requirement.
- Hence Pass/Fail courses cannot be taken from within the major core OR elective courses, (even if such courses are in excess of the major requirements and falling in the free-elective bin), OR count towards the University Distribution requirements.
- Students can only convert courses to Pass/Fail which are outside of their major field of study. If students choose courses for Pass/Fail conversion which are cross listed with their major field of study, such courses cannot be converted to Pass/Fail even if those courses are fulfilling their free electives' requirement.
- In case of a change of major, if the courses previously taken as Pass/Fail fall under the new major core, major elective, or In/Out group bin requirements of the new major, the courses must be repeated with letter grading scheme.
- Pass/Fail courses do not count towards fulfilment of a minor.
- Students who wish to repeat the course that they already opted as Pass/Fail and Failed, are required to re-submit a formal application for Pass/Fail conversion in the same course when the application is made live in that particular semester. However, for repeat attempt, the course in the consecutive regular semester can be opted as Pass/Fail, ONLY if it is allowed by the course Instructor to be taken as Pass/Fail during that semester. Otherwise, you will not be able to re-submit the application for Pass/Fail conversion.
- Up to 10 credit hours can be taken as Pass/Fail during the entire degree tenure, inclusive of all SWR courses, Independent Study, Directed Research Project, Internship (in case of SDSB students) and any other course previously graded as Pass/Fail.
- C or higher grade attained in a course which has been designated as Pass/Fail will not be visible on the transcript and will not count towards the calculation of Semester GPA, Cumulative GPA and Specialization CGPA. Only the attained Pass/Fail grade is visible on the transcript.
- In a Pass/Fail designated course, a Pass grade is awarded, if the attained cumulative percentage in the course is equivalent to a C or higher grade, as per the grading scale applied to the entire class. C-, D and F grades will be converted to Fail (F) under this policy.
- A Pass grade will have no effect on the CGPA and the credit for the course is earned, whereas a Fail grade will negatively count towards the CGPA calculation with no credit given for the course.
- Pass/Fail Courses are not converted to letter grade for the computation of Honours and Awards. However, these credits will count towards the credit hour requirement for DHL.
- Summer is an accelerated semester; the courses enrolled during summer semester cannot be converted to Pass/Fail.

22. Attendance Policy

22.1. BA (Honours)/BS/BSc (Honours) Programmes

Students are expected to attend all classes to take full advantage of the learning opportunities. They also need to avoid missing surprise quizzes so that the course grade is not negatively affected.

Some instructors require attendance to be mandatory (with a penalty for missing classes) and have substantial grade reduction associated with absences, as given in the respective course outline for each course.

22.2. B.A.-LLB (Honours) Programme (LL. B Years I, II, and III)

In the B.A.-LLB (Honours) programme, attendance is mandatory. Missing four or more cases can result in the penalty of a reduction of one letter grade from a student's eventual overall letter grade. Furthermore, anyone who is ten minutes late for a class is marked absent, unless s/he has a legitimate excuse communicated through prior notification to the teacher or in exceptional cases, formally communicated after class to the instructor or TA.

HEC and the PBC mandate 75% attendance in all courses, translating to a maximum of 7 absences in 4 credit-hour courses and 3 in 2 credit-hour courses.

23. Examinations

The Office of the Registrar allocates auditoriums for conduction of examinations. As a norm, the mid-term and final examinations follow the regular class meeting pattern. Students are strongly advised to take courses keeping this in mind. As a norm, large classes and courses requiring combined examinations are planned on the weekends or the late evening time slot during weekdays. Students are required to take examinations as scheduled. For missed examinations, refer to Policy on *Make-up Policy for Graded Instruments*.

The following additional detail relates to the conducting of examinations at LUMS:

- During an examination, a student may not leave the auditorium without the permission of the invigilator. If allowed, only one person at a time is allowed to go out of the room.
- No question papers and answer books are to be taken out of the examination room during the examination.
- All students are required to bring their LUMS student smart card for the examination. The invigilator and/or instructor reserves the right to check the ID of the students.
- Mobile phones and other communication devices are not allowed in the examination venue.
- The duration of an examination is determined by the instructor and no extension in the time is given unless allowed by him/her.
- Students are not allowed to enter the examination room if they are late by more than 30 minutes. No extra time is granted.
- Students may not leave the auditorium till 45 minutes of the examination time has elapsed.
- In case of natural/medical emergencies, students may be allowed to leave the examination room accompanied by an invigilator.

24. Make-up Policy for Graded Instruments

The purview of this policy includes all instruments/sub-instruments of a course impacted by a short-term, serious emergency or circumstances beyond a student's control; academic accommodations for disabilities are the purview of the Office of Accessibility & Inclusion (OAI).

24.1 Rationale and overview

As an institute of higher learning, LUMS considers academics as the university's central activity and class attendance / assessments are an integral part of this learning process. Further, giving different time periods or opportunities to different students is impossible for instructors and also unfair to those students who receive less time or fewer opportunities for assessments. For these reasons, absence from examinations or missing graded instruments is strongly discouraged and only permissible in extreme situations beyond the student's control. This allowance is to balance the integrity/equity of the assessment system while providing flexibility in rare and exceptional emergencies: i) serious medical conditions (that persist despite adequate treatment and whose severity significantly impacts studies); ii) death in the immediate family; iii) certain pre-approved extracurricular activities (where the student is officially representing LUMS at a prestigious forum); iv) visa interviews (for higher studies/immigration), job interviews for graduating seniors, and other emergencies (see below for additional details on each situation).

24.2 Process of petitioning and associated timelines

Petition for any known-in-advance event/activity (e.g. sports tournament, extra-curricular commitments, weddings, and any other known-in-advance activity) must be submitted to SSS as soon as the event/activity date is known and no later than one week prior to the instrument date/deadline (note: this deadline includes all required documents, so students should plan well in advance of this deadline). This is required out of courtesy to course instructors, so they can also plan accordingly in advance. Please note that petitions after the instrument deadline will only be entertained for unanticipated emergencies that could not have been planned for in advance.

To petition for any unforeseen emergencies, the student or someone on their behalf must submit the petition form along with all required documentation as soon as possible; this is necessary so that course instructors can be informed of the potential accommodation needed in a timely fashion. This submission should ideally happen prior to the instrument's deadline but no later than three days after missing the graded instrument for which relief is being sought.

Petition submission is not considered complete until all required documentation has also been submitted. This means a petition for instruments whose dates/ deadlines fall outside the timeline as mentioned in the above situations will not be processed. Therefore, it is important for students to submit the petition form and all necessary documents as soon as possible (or request someone to do so on their behalf), rather than waiting for the resolution of the emergency impacting their studies).

When to request course Instructor or Program and when to request SSS (with possible outcomes in each scenario).

The request must be submitted to the Instructor or Program (i.e. the Program Coordination Office/Deans' Office/Advising unit) in cases where the missed instruments total 10% or less of the course grade; OR to the Office of Student Support Services at petitions@lums.edu.pk (in cases where the missed instruments total more than 10% of the course grade). This system balances two important elements of education at LUMS: the principle of instructor and program autonomy over their courses/ grading (when the impact on the course grade is up to 10%) and the principle of equitable treatment of students across campus in all courses/programs (when the impact on the course grade exceeds 10%).

When relief is being sought for a specific situation and the instruments collectively comprise 10% or less of the course grade (in a single course), the Instructor or Program (i.e. the Program Coordination Office/Deans' Office/Advising Unit) shall have the prerogative to ascertain the circumstances and determine the path forward for the student in that course. The respective roles of the program vs the course instructor

is the prerogative of the school; per school policies, the program may play a supportive role (i.e. guiding the instructor on how to handle the situation but leaving the determination to the instructor's discretion) or the program may play a determinative role (i.e. deciding the outcome and informing the course instructor/student). In either case, Student Support Services will not process such petitions and therefore students should contact the course Instructor or Program directly as soon as possible, ideally prior to the instrument's deadline (for any known-in-advance activity) and no later than 3 days (for unanticipated emergencies) after the deadline for the instrument for which relief is being sought. In these cases, the instructor or Program should decide per school policies and communicate with the student within a week of receiving the request. Instructors/Program have the full range of options available to them, based on their assessment of the circumstances and their course policies:

- i) Allowing a retake of the missed instrument. (Note: the retake can include a different version of the missed instrument – so that the student does not benefit from speaking with those who have already attempted the instrument – or an alternate form of assessment deemed appropriate by the instructor for the learning being assessed).
- ii) Applying the course's pre-existing N-X policy OR assigning an average or percentile received by the student in other sub-instruments till the end of the course (for instruments with multiple sub-instruments, e.g. CP, quizzes, etc.).
- iii) Assigning an average grade or percentile received by the student in other instruments till the end of the course (for instruments that do not have any 'sub-instruments' e.g. mid-terms or final exams);
- iv) Denying the request and assigning a zero score for that instrument.

Note: In no circumstances can the student be assigned the 'class average' or a grade based on the performance of other students in the course. Instructors are encouraged to consult their Program Coordination office/Dean's office/School's advising unit or HoD about: a) school-level policies and guidelines for handling student requests that constitute 10% or less of the course grade; or b) how best to accommodate a student whose petition has been approved by OSA.

When relief is being sought for a specific situation and the impacted instruments collectively comprise more than 10% of the course grade (in a single course) a request for a make-up must be made by the student or someone on his/her behalf, on the Make-up Instrument Petition Form which is to be submitted to the Office of Student Support Services (SSS) at petitions@lums.edu.pk along with the other required documents. This petition-submission must adhere to the deadlines mentioned in the section above titled "Process of petitioning and associated timelines" (i.e. for any known-in-advance activity, the submission must occur as soon as the date is known and no later than a week prior to the instrument deadline – and for unforeseen emergencies, the petition must be submitted as soon as possible and no later than 3 days of the instrument date/deadline).

The petition is processed by the SSS after due diligence and the student is notified of the decision, at most within 48-72 working hours after all required documentation has been submitted. Submitting a petition does not guarantee its approval. Depending on the circumstances and documentation, the petition could be denied, in which case a zero score will be assigned to that instrument. If the petition is approved, there is no grade reduction on the approved make-up instrument. (Note: even if a petition is approved, the specific dates or instruments approved will be based on the verifiable circumstances established through appropriate documentation. This could be different from the dates/instruments requested by the student and could exclude certain dates/instruments for which: i) the documentation is incomplete or does not conclusively

establish the circumstances; or ii) the established circumstances do not meet the criteria laid out in this policy.

Once approved, the instructor or Program will be notified, and they will have the discretion to select the most appropriate option for proceeding:

- i. Allowing a retake of the missed instrument. (Note: The re-take can include a different version of the missed instrument – so that the student does not benefit from speaking with those who have already attempted the instrument – or it can be an alternate form of assessment deemed appropriate by the instructor for the learning being assessed. However, a re-take is not required if there is no pathway to passing the course even if the missed instrument is retaken)
- ii. ii) Applying the course's pre-existing N-X policy OR assigning an average or percentile received by the student in other sub-instruments till the end of the course (for instruments with multiple sub-instruments, e.g. CP, quizzes, etc.)
- iii. Assigning an average grade or percentile received by the student in other instruments till the end of the course (for instruments that do not have any 'sub-instruments e.g. mid-terms or final exams).

Note: In order to receive a grade for a course, students must have graded instruments that cumulatively account for at least 70% of the course grade. Therefore, if the missed instrument/s account for 30% or more of the course grade, then this option of extrapolating 'average in other instruments to the missed instrument' – is not available and a retake is required (see the guidance for retakes given in option #i earlier). Further, in no circumstances can the student be assigned the class average, or a grade based on the performance of other students in the course.

24.3 Other elements of the policy:

- For missed final examinations: private arrangements for makeup of the final examination between a student and an instructor are not allowed. The student is required to submit a petition to Student Support Services, so that the circumstances for missing the final exam can be ascertained through appropriate documentation. If the make-up exam option is granted, the make-up exam must be conducted by the instructor within two weeks of the original exam date in case of a regular semester, and within a week in case of a final graduating semester.
- Students who have already attempted an instrument cannot petition for makeup for the same instrument (this includes situations when the student has entered the examination hall). Students who miss a scheduled make-up exam will not be given a second chance.
- In situations where the petitioned instruments account for 50% or more of the course grade, the appropriate accommodation may be to withdraw from the course and re-take the course when the student is better able to meet the course's academic requirements.
- If – for any reason or circumstance – a student requests one or more petitions at any time during the semester that cumulatively add up to more than 21 days (including weekends) during spring/fall, or more than 7 days (including weekends) during summer, this constitutes the loss of a significant portion of the time allocated for teaching/learning during the semester. In such cases, SSS will forward the case to the Dean OSA for consideration for an involuntary semester withdrawal so that the student can resume studies in a future semester when their circumstances allow them to engage with their studies and learning.
- Certain course outlines may limit the number of absences allowed. In cases where a student's petition is approved and it clashes with the course's policy on the number of absences allowed, SSS will attempt to work with the instructor; if the instructor feels that the course's learning objectives are impossible to

achieve given the absences approved in the petition, SSS will explore the possibility of a course withdrawal for the student.

- In the last three weeks of the semester, if a student petitions for final exams/projects/papers etc. in three or more courses, or requests for withdrawal from two or more courses, this means that the gravity of medical or other circumstances is posing a major hurdle in completing academic requirements. In this context, while relief for semester-completion may be warranted, at the same time, continuing immediately in the subsequent semester may not be appropriate because of the seriousness of medical or other circumstances that are impacting studies. Therefore, if requests for course-withdrawals from two or more courses or petitions for final exams/ projects/ papers etc. in three or more courses in the last three weeks of the semester are approved, SSS will make a determination within three weeks of the petition about whether an involuntary withdrawal in the subsequent fall or spring semester is warranted, to allow time for handling the circumstances and their lowering future impact on studies. (Note: if an involuntary withdrawal is decided, appropriate documentation will be required prior to resumption of studies in the subsequent fall or spring semester. Furthermore, enrollment in summer will not be possible until the student is cleared to resume studies).
- Any misrepresentation in the petition or documentation constitutes fraud as well as cheating (i.e. an attempt to secure course credit through unfair means) and therefore may result in a referral to the Disciplinary Committee (DC).

24.4 Circumstances covered by the policy

The make-up instrument policy is applicable to the following situations. (As mentioned above, Student Support Services will only be involved for petitions when more than 10% of the course-grade is impacted).

24.4.1. Medical Cases

Relief is only granted for medical circumstances that are verified by LUMS healthcare professionals as having symptoms of such severity as to seriously hinder meeting academic commitments. In such circumstances, the student must consult with the LUMS Medical Center (LMC) or on-campus Counseling and Psychological Services (CAPS).

While documentation from on-campus healthcare facilities (LUMS Medical Center and CAPS) is highly preferred, in cases where the student is out of station or away from the campus, the student should submit complete and official medical documentation related to the illness and medical treatment, i.e., original copies of the clinical reports, doctor's evaluation, hospitalization details, medication receipts, contact information of treating physician, etc. to the Office of Student Support Services, within three days of the missed instrument.

In such circumstances, Student Support Services will evaluate the medical documentation in consultation with LMC/CAPS and may require additional documentation and/or direct communication with the treating physician or clinician, before deciding about the petition.

In all cases, clinical evaluations and written assessments from the treating physician or counselor must be obtained while the student is unwell. Note: petitions can only be processed when the medical and clinical evaluation was conducted at a time that can clearly establish medical impairment at the time of the missed instrument; therefore, retroactive clinical evaluations about past illnesses cannot be processed. SSS may further consult with the Medical Center or CAPS to determine whether the severity of symptoms warrants relief and may require students to submit additional documentation.

Students are expected to look after their well-being responsibly. Inadequate engagement with healthcare and treatment means that the resulting impact is a consequence of choice (i.e., the choice of not engaging

with healthcare/treatment). Such cases are therefore not covered by this policy, which is for emergencies beyond the student's control.

24.4.2. Death or illness in the Immediate Family

In the unfortunate event of a death in the immediate family (strictly limited to parents, siblings, spouse, children or grandparents only), students should file a makeup exam petition to SSS within a week of the demise.

The Office of Student Support Services may need to verify the documentation in due course and will inform the student regarding the decision. Petitions will not be entertained for demise of any individuals or relatives other than specified above in the policy.

In cases of illness in the immediate family, relief is only granted for cases where: a) the unwell relative is the student's sibling, parent, or child; b) there is documented overnight admission to the hospital for a severe illness; and c) other caregivers are not available to enable the student to meet their academic commitments.

24.4.3. Extra-Curricular Activities

If a student is proceeding to participate in an event which is considered prestigious by the University, the patrons of the relevant societies/clubs/sports teams should try to negotiate a date for the event with the event organizers that does not conflict with the midterm/final exam schedule or other academic commitments. If the negotiations fail, the patron should inform the SSS per the deadline mentioned in the section above titled "Process of petitioning and associated timelines" (i.e. for any known-in-advance activity, the submission must occur as soon as the date is known and no later than a week prior to the instrument deadline. Note: students can be allowed to participate in activities like conferences if endorsed by their faculty adviser or their School's advising Unit/Dean's office (as being important enough for their academic learning to warrant a petition for missed course instruments).

In the case of an international event, one extra day before and after the event to account for travel logistics can be petitioned for. Extra days spent on private extensions of the trip will not be permissible.

In case of sports events, students participating in the following are eligible to file a petition:

- Games organized on national/regional or international scale
- HEC inter-varsity events
- *For undergraduate students only:* One non-HEC away inter-varsity event per academic year (only for teams for whom HEC does not organize any event)

All sports events other than the ones prescribed in this policy will not be processed.

24.4.4. Visa/Employment Cases

Graduating seniors who have a job interview, and students from any class who have applied for a study visa or immigration visa and have been called for an interview on the date of an instrument are allowed a makeup instrument without grade reduction. The deadline will be determined per the "Process of petitioning and associated timelines" section above (i.e. if the interview date was known in advance, then the petition should be made as soon as the date is known and no later than a week prior to the instrument; if the interview date was communicated at the last minute, then the petition must occur as soon as the student knows and no later than three days after the instrument date/deadline). Petitions for interviews or visas other than the ones indicated in this policy will not be granted (e.g., internship interviews for non-graduating students, or travel/business visa cases or spousal visas/interviews, umrah and leisure trips etc.)

24.4.5. Other circumstances

Petitions for wedding/marriage events are only allowed for marriage of siblings or self, and only for the main events of nikkah/mehndi, barat and walima. As mentioned above in “Process of petitioning and associated timelines” all documentation must be provided as soon as the event dates are set and no later than one week before the instrument date/deadline. For weddings in Lahore, petitions will only be granted for instruments clashing with the specific event date and time. For wedding locations out of the city, petitions may be granted from the first main event to the last main event. For wedding locations abroad, one day of travel time can be granted before and after the main events.

For other emergencies, the student will apply to the SSS either prior to or within three days of the date/deadline for the instrument for which relief is being requested, with the provision of adequate documentation that establishes the emergency. Petitions will not be entertained for circumstances that can be catered for through better planning (e.g., traffic delays, power outages, equipment malfunctions, etc.)

25. Student Code of Conduct

25.1 Introduction

25.1.1 Preamble

The Lahore University of Management Sciences (LUMS) is a unique residential campus and a site of learning, discovery, transformation, advancing knowledge and intellectual growth for its students. The University has accomplished this by maintaining academic freedom, the free flow of ideas, open dialogue, accessibility, and through maintaining the integrity of the University’s processes. This is made possible by a highly diverse community that comprises students, staff, and faculty. In order to uphold the integrity of the institution LUMS expects its students to understand and adopt the guiding principles that undergird this institution. The values, principles and general practices are laid out in the Student Code of Conduct.

The Student Code of Conduct is based on the premise that LUMS is a shared community comprising students, staff and faculty, many of whom also live on campus. Each community member’s behaviour impacts both their own learning as well as the ability of others to access or participate in this university’s learning experiences. Therefore, LUMS’ commitment to learning automatically entails upholding behaviours that maximize the entire community’s learning. This also requires the institution to intervene when any individual’s behaviour negatively impacts the person’s own or other people’s ability to access or participate in the LUMS experience.

This Code also assumes that LUMS is not just an educational institution but also a civic one. Its investment in education is purposeful: to have a positive impact on society. LUMS accomplishes this by producing graduates who can play a positive role in all the communities they are a part of. In short, the goal of producing good citizens is entailed by LUMS’ own citizenship: the institution’s desire to positively impact the society in which it is embedded. The LUMS’ Code of Conduct is essential to this institutional mission of producing graduates who can make a positive contribution to society. LUMS cultivates this civic awareness by requiring all its affiliates to live and practice it during and beyond their time at LUMS. Membership in the LUMS community is a privilege, not a right. This privilege is retained by upholding the values of this community within and outside of the institution.

A shared community that upholds civic values necessarily places the utmost importance on pluralism. LUMS is a diverse, plural community that celebrates gender inclusion, various ethnic, racial, religious and socioeconomic backgrounds as well as affiliations—faculty, students, and staff. This commitment to

pluralism means that we learn to cohabit in shared spaces– the LUMS campus and by extension the cities and country that we live in, through responsible behaviour and civic sensitivity.

As an institution aiming for excellence, LUMS aspires for all affiliates to embody the ideals and practices highlighted above to the highest extent possible. The goal is for all affiliates to uphold behaviours that promote – in the best possible way – the sustenance of a shared space where everyone can flourish. However, when anyone’s behaviour begins to negatively impact their own or others’ ability to participate effectively in this community, then LUMS is committed to intervening to rectify the situation for the sake of maintaining an appropriate learning and living environment. For transparency, it is necessary to clarify behaviours that will trigger an institutional response. While it is necessary to enumerate this list of sanctionable behaviours, it is also important to clarify avoiding sanctions is only minimally acceptable behaviour, not excellent behaviour. In other words, the space allocated to sanctionable behaviours here is a function of transparency not priority. LUMS requires all members to adhere to minimally acceptable behaviours but LUMS aspires for all members to embody excellent behaviours.

25.1.2 Purpose

Students are integral members of the LUMS community, and they are entitled to numerous privileges and rights. However, they also bear the responsibility to conduct themselves in an honorable, ethical, and appropriate manner, and to adhere to the rules and regulations of LUMS. The Student Code of Conduct describes the standard of behaviour expected from every LUMS student and specifies actions that will be considered violations of the conduct expected from a LUMS student.

25.1.3 Applicability and Jurisdiction

This Code of Conduct is applicable to all LUMS’ students, alumni, and student organizations at LUMS.

- **On-campus jurisdiction:** The disciplinary jurisdiction of this Code of Conduct extends to any misconduct by a student, alumnus or student organization that occurs on LUMS campus, or in a LUMS student-housing facility that may be situated off-campus.
- **Off-campus jurisdiction:** The interaction of LUMS community with the people, institutions, professional societies and organizations outside of LUMS, is an important aspect of LUMS mission and activities. The members of the LUMS community are expected to behave ethically, honorably, professionally and in keeping with LUMS core values and quality standards at all times. Therefore, the disciplinary jurisdiction of this Code of Conduct also extends to misconduct that occurs off-campus. Students should be particularly mindful of behaviour when representing LUMS off-campus. However, if an egregious violation of the code is brought to the attention of the University at any occasion relating to behaviour off-campus the University reserves the right to penalization. This is particularly important whilst representing LUMS but also applies otherwise.

In exceptional circumstances where the university determines, based on information of off-campus behaviour, that a student or alumnus may pose a risk to the campus community, the university may restrict or suspend the individual’s campus access privileges and may impose disciplinary sanctions, even for off-campus behaviour when not representing LUMS.

Disciplinary proceedings at LUMS may be instituted for an act of misconduct even if there is civil or criminal litigation pending for that action in a court of law. Disciplinary sanctions may be imposed prior to, during, or after the litigation has run its course.

25.1.4 Responsibility to Understand the Code of Conduct

It is mandatory for every student, alumnus, and student organization to understand and adhere to this Code of Conduct. Ignorance of the Code of Conduct will not be accepted as a valid defense during disciplinary proceedings. Queries seeking clarifications regarding this Code of Conduct may be addressed to: osa@lums.edu.pk.

25.2 General Expectations of Conduct

One of the aims of the programs at LUMS is the development of personal and professional ethics among students. Students are expected to conduct themselves honourably in all aspects of their life at LUMS. They are expected to uphold all LUMS' values listed in the previous section.

The university expects all LUMS students to take responsibility for their actions. Their behaviour should reflect a respect of law, a consideration of the rights of others, the Student Code of Conduct in academic and non-academic matters, and shared standards of considerate and ethical behaviour.

Disciplinary sanctions may be imposed in case of violations of this Code of Conduct. Examples of disciplinary sanctions include, but are not limited to, fines, community service hours, or academic penalties, such as probation, separation or expulsion from the university. A student expelled for disciplinary reasons will not be considered for readmission.

25.2.1 Maintaining Decorum

All members of the LUMS community share the responsibility of maintaining an atmosphere of mutual respect and are expected to show good and tact in all matters. Students are expected to maintain proper decorum and etiquette and demonstrate the core values of pluralism and respect while interacting with their peers, faculty members, guest speakers and the staff at LUMS.

Students are expected to be respectful towards faculty and staff of all ranks; they should exhibit a dignified demeanor and respect the rights, differences, and dignity of all members of the LUMS community.

25.2.2 Classroom Behaviour

Students should not be late for classes and should not leave the classroom when the class is in session except under special circumstances, with the permission of the instructor. They should not exchange notes, cross talk, or use their mobile phones during class.

25.2.3 Obligation to prove identity

Students must possess their Student ID smart cards at all times while on campus and present them upon entry. They are obliged to show their ID if asked by faculty and/or staff of all ranks. Failure to do so will result in disciplinary action.

25.2.4 General Behaviour in Public Spaces

Students must remember that the LUMS campus is a shared space, and they must govern their behaviour accordingly. Inappropriate behaviour includes but is not limited to: public indecency (individual, couple, or group), acts of intimacy that are overtly sexual in nature, unprompted or random usage of obscene language, and indecent behaviour overt or covert towards an individual. Inappropriate behaviour can lead to disciplinary action or be referred to the student's parents.

25.2.5 Appropriate Dress

The LUMS community is expected to dress in a fashion that reflects high standards of professional decorum. The dress should be in congruence with broad cultural sensibilities and should reflect a consideration of the diverse and mixed community present here at LUMS. There is no prescribed uniform in the university. All members of the LUMS community must exhibit a propriety in their dress that corresponds to a professional environment. Clothing that carries indecent or vulgar comments or implies obscenities, as well as attire that is revealing is deemed unacceptable.

While on campus, students are expected to be neatly and appropriately dressed at all times, and especially for interviews, class presentations, seminars by guest speakers, and other academic events.

25.2.6 Keeping the Campus Clean

All members of LUMS community have a shared responsibility to keep the campus clean. This means no littering on campus, inside or outside classrooms. Trash cans are placed on campus at several locations. All members are urged to use these trashcans and refrain from littering on campus.

25.2.7 Eating and Drinking

Eating and drinking is, in general, not allowed in academic buildings and the Library, except in areas designated for this purpose. Food and drinks, with the exception of water, are not allowed in classrooms, discussion rooms, laboratories and the library.

25.2.8 Smoking

Smoking is prohibited in all facilities and areas of LUMS, except for the designated Smoking Zones located throughout the campus. Smoking is not permitted outside these zones. Furthermore, this definition extends to university owned or leased vehicles outside LUMS.

Cigarette waste should be disposed of properly in a safe manner in designated outdoor ashtrays. Fire hazard, campus safety and cleanliness should be considered in disposing of cigarettes and ash. Smokers will be held responsible for any violations. Non- compliance of the smoking policy will result in fines and possible disciplinary action. Visitors refusing to comply with the policy shall be asked to leave the campus. For detailed guidelines, please access the Smoking, Drugs and Alcohol Abuse Policy present on the LUMS website.

Faculty and staff are authorized to approach and collect the smart cards of anyone found littering or smoking outside designated areas on campus. Cards are to be sent to the security desk at the main gate where the offenders may reclaim them after paying a Rs. 5000 fine.

25.2.9 Drugs and Alcohol

Drugs and alcohol, as defined by the Acts and Ordinances, are not permitted anywhere on campus, at any time, without exception.

Non- compliance of the drug policy will result in possible disciplinary action. Visitors refusing to comply with the policy shall be asked to leave the campus. For detailed guidelines, please access the Smoking, Drugs and Alcohol Abuse Policy present on the LUMS website.

25.2.10 Visiting Guests

It is the responsibility of the members to ensure that their guests adhere to the security rules, regulations, and behavioural norms of the University.

Guests must not possess or consume any type of contraband within LUMS. If a violation occurs, the host will be held responsible for their actions. Please refer to the updated LUMS Visitors' Policy.

25.2.11 Distribution of Written Materials and Posting of Notices

Free inquiry, free expression and civility within the academic community are indispensable to the University's objectives. Inclusion of the name, telephone number or e-mail address of the University sponsoring organization or individual member of the University community on material resembling petitions, posters, or leaflets distributed on campus is required. Such notices can only be posted on noticeboards. Complaints against offensive notices can be lodged with the Office of Student Affairs at osa@lums.edu.pk.

25.3 Misconduct

The following actions will be considered misconduct whether they occur on campus, off-campus and/in an online space and will be treated as a violation of the Student Code of Conduct at LUMS.

In addition to violations of the general expectations of conduct, there are specific categories of misbehaviour that may result in penalties and further violations. The list below is not exhaustive. The University reserves the right to penalize behaviour that does not align with the Student Code of Conduct

In the case where the incident of misconduct does not elicit a sanction/penalty based on University's code the University reserves the right to decide based on its core values, principles and good judgement.

25.3.1 Discrimination

- a. Expressions of racial, religious, ethnic, socio-economic status or gender bias, or discrimination based on these factors, directed at individuals or groups.
- b. Unequal treatment that entails demeaning another person for reasons including but not limited to race, gender, creed, or origin.
- c. Violation of merit for such reasons.

25.3.2 Aggressive Behaviour and Interpersonal Misconduct

LUMS has zero-tolerance for any form of aggressive behaviour such as harassment, stalking, or ragging activities. Misconduct of this type includes, but is not limited to:

a. **Stalking**, which refers to a pattern of unwanted and persistent pursuit and intrusion into the life of another person, such as following them around, appearing uninvited at their place of residence, employment, or education, as well as making other attempts to contact the target, who clearly does not desire it. Stalking is a pattern of behaviour is such that it is repetitive, and it causes stress in the victim, who experiences it as a threat and may therefore realistically fear for their physical safety.

b. **Harassment** is behaviour the purpose of which is to humiliate, discomfit, or otherwise psychologically torment or provoke the target, whether through words, gestures, or actions. Although usually stopping short of actual physical aggression, harassment is an act of hostility that has a disruptive effect on the victim's ability to function at work or school. **Sexual harassment**, which is any unwelcome sexual advance, request for sexual favors or other verbal or written communication or physical conduct of a sexual nature, or sexually demeaning attitudes, causing interference with work performance or creating an intimidating, hostile or offensive work environment, or the attempt to punish the complainant for refusal to comply to

such a request or is made a condition for employment. Sexual harassment may involve the behaviour of a person of either sex against a person of the opposite or same sex.

The Disciplinary Committee does not deal with sexual harassment cases. Rather, they are referred to Standing Inquiry Committee on Sexual Harassment. [Refer to LUMS Policy on Sexual Harassment available on LUMS Portal.]

c. Bullying refers to hostile and abusive behaviour usually across a power-differential, that involves harmful interpersonal aggression—through words or actions—that humiliates, degrades, demeans, intimidates, or threatens an individual.

Such conduct must be severe or pervasive enough to create an intimidating, hostile, or abusive environment that denies equal access to educational or workplace opportunities. It may include, but is not limited to:

- **Hurtful or abusive expression**— for example, name-calling, personal attacks or public shaming.
- **Intimidating physical gestures or threats** – like yelling, getting too close to someone aggressively, or unwanted physical contact.
- **Excluding or isolating someone** – especially if it damages their reputation or makes it harder for them to do their work or studies.
- **Trying to harm someone’s image or success** – for example, spreading false information, sharing private details to embarrass them, or interfering with how they are seen by others or their academic/professional progress.
- **Cyberbullying**, which includes using social media or digital platforms to harass, embarrass, or threaten someone (e.g., abusive messages, impersonating someone, cyberstalking or public shaming).

This policy on bullying does not restrict constructive feedback, academic critique, managerial decisions, or reasonable disagreements that are part of academic and professional life.

d. Defamation: Defamation involves making a false or unverified statement about a university community member to a third party, resulting in reputational harm, including hatred, contempt, or loss of goodwill. It can be verbal, written, or digital and includes spreading false information, making unverified public accusations, publishing harmful falsehoods online, or maliciously sharing private information.

This policy on defamation does not restrict protected free expression, academic discourse, or reasonable criticisms made in good faith regarding a person’s professional or academic conduct. However, statements must be factual and not intentionally misleading or false.

e. Hazing or Ragging, which constitutes initiation rituals that involve abuse and that humiliate and violate the dignity of a new member. Any new member initiation process should be conducted in a manner that respects the dignity of new members and protects their mental and physical well-being. The intent of any person engaging in hazing activity or the consent or cooperation of any person who is a victim of hazing will not constitute a defense to an allegation of misconduct for hazing.

f. Physical assault includes not just beating, punching, kicking but any aggressive physical contact such as pushing and shoving. In almost all circumstances being provoked will not count as a mitigating factor in disciplinary proceedings. Provocations to violence can be physical or non-physical and may include abusive language or gestures. Provocation is when a person is considered to have committed a violation of the code of conduct because of a preceding set of events that might cause a reasonable individual to lose self-

control. **Intimidation** refers to menacing behaviour or threats of harm to self, to others or to persons related to them, often as a means of coercing the target to acquiesce to the perpetrator's demands.

g. Photographing or Recording (audio or video) of others without consent in places where there is a reasonable expectation of privacy is not allowed.

h. The sharing of images depicting nudity is strongly discouraged, as it can infringe upon individuals' privacy, promote unethical behaviours, and create an uncomfortable or unsafe environment. Any such activity can be considered a violation of the code of conduct and may solicit a disciplinary proceeding. Respecting the boundaries and dignity of others is essential in fostering a culture of inclusivity and ensuring a positive community experience.

i. Any other act that endangers human life or threatens serious physical or psychological injury.

25.3.3 Damage to Property

- a.** Theft of, conversion of, misappropriation of, or damage to or destruction of any property of the University or property of others while on University premises or at official University functions.
- b.** Attempt to set fire on campus, whether successful or unsuccessful, except in places designated for this purpose, such as lab burners, cooking stoves, or fireplaces.

25.3.4 Unauthorized Possession of Weapons

The unauthorized possession, storage, use or threat of use on campus of firearms, ammunition, explosives, fireworks, firecrackers, or other weapons.

25.3.5 Illegal Drugs and Alcoholic Beverages

- a.** Possession or consumption of heroin, opiates, cocaine, marijuana, hashish, alcoholic beverages or other intoxicating substances is strictly prohibited anywhere on campus.
- b.** Offering to sell or obtain these substances.

If a student is part of a group in which intoxicating substances are being consumed, it is in the student's best interest to leave the group to avoid suspicion of involvement or complicity.

25.3.6 Dishonesty, Forgery and Misrepresentation

Some examples of violations of this category are:

- a.** Providing false written or oral information to the University.
- b.** Providing forged documents to the University.
- c.** Providing false identification to an official of the University.
- d.** Providing false financial information for the purpose of obtaining any concession or financial aid.
- e.** Forgery, alteration, or misuse of any University document, record, key, electronic device, or identification.
- f.** Signing a document with someone else's name, initials, or signature.
- g.** Financial misappropriation.
- h.** Misrepresentation, or false statement of fact

25.3.7 False allegation

Deliberately accusing a person or an organization of misconduct, with knowledge that this allegation is false.

25.3.8 Disruption

- a. Disrupting or obstructing the functions or activities of the University, whether on campus, or at functions of the University off-campus.
- b. A demonstration on campus which substantially disrupts the normal operations of the University
- c. Inciting others to substantially disrupt the normal operations of the University
- d. Obstructing the entrance or exit of any university building or campus gate.
- e. Obstructing the free flow of vehicular or pedestrian traffic on the campus.
- f. Trespassing, that is, unauthorized entry into any area of the campus, room, or grounds.
- g. Disorderly conduct, including failure to comply with the directions of faculty or staff of the University.
- h. Public use of abusive language or curse words.
- i. Discourteous, rude behaviour with faculty or staff of the University.

25.3.9 Disturbance

Every LUMS community member has the right to a reasonably quiet environment in the classrooms and on campus in general. The university expects all members to respect this right and to be aware of the impact of their activities on their fellow members.

In public places like the Library, academic buildings, auditoriums, laboratories, and the Pepsi Dining Centre, disruptive behaviour is considered irresponsible. Members should refrain from being noisy in the corridors as this disturbs the classes.

25.3.10 False Report of Emergency

Deliberately causing or making a false report of an emergency. Some examples are false reports of a fire or a crime.

25.3.11 Misuse of Safety Equipment

Unauthorized use or alteration of fire or other safety or emergency devices.

25.3.12 Theft or Possession of Stolen Property or Service

- a. Taking without consent the property of the university or the property of a member of the university community, or availing facilities or services to which one is not entitled.
- b. Possession of stolen property or service.

25.3.13 Unauthorized Use of University Keys or Other Access Devices

Unauthorized use, replication, or distribution of keys or other access devices for any building, room, or facility on the campus.

25.3.14 Unauthorized Use of University Property

Unauthorized use of any University property, equipment, or facilities.

25.3.15 Violation of Rules of Campus Facilities

Facilities such as Hostel, Sports Complex, eateries, laboratories, or the library are governed by their own set of rules. Violation of these rules will be considered an offense that may be subject to disciplinary action.

All hostels at LUMS are single-sex dormitories, and access by members of the opposite sex is strictly prohibited.

25.3.16 Misuse of Identification

- a. Extending your access rights by lending your card to someone else.
- b. Borrowing or unauthorized possession of someone else's identification.
- c. Helping other people, who are otherwise not allowed access, to get in (including tail gating).
- d. Failure to report loss of identification card to University security immediately upon discovery of loss.
- e. Impersonation, as another person in an examination or to access any facility, resources, or to mislead another person.
- f. Tampering with devices and instruments of identification, for example, identification cards, access control hardware or surveillance devices.

25.3.17 Misuse of Computing Resources

The University provides several forms of computing and information technology resources for advancement of the purpose of the university, including education, research, service and administration. Misuse of computing and information technology resources implies using them for some other purpose, which includes, but is not limited to

- a. Unauthorized access to a computing or information technology resource.
- b. Exchange of passwords: Obtaining the password of an account without the owner's consent. Sharing LUMS password with another person.
- c. Knowingly performing an act that will interfere with the normal operations of a computing or information technology resource, merely for the purpose of disrupting its normal operation. Intentional introduction of a computer virus, worm, or Trojan horse.
- d. Knowingly attempting to circumvent security infrastructure or discovering or exploiting security loopholes without seeking permission to do so.
- e. Use of computing or information technology resources to harass, intimidate, threaten, or discriminate against someone, or to knowingly access or distribute content that is obscene or sexually explicit.
- f. Masking the identity of an account or a computing resource.
- g. Attempting to monitor or tamper with another user's electronic communications, or reading, copying, changing, or deleting another user's files or software without the explicit agreement of the owner.
- h. Attempting to read or access another person's email, files, or communications, without their consent.
- i. Intentional damage to computing or information technology resources or data.
- j. Installation of unauthorized or illegal software.

25.3.18 Aiding, Abetting, or Incitement

Helping, encouraging, or forcing another to violate any of the rules and guidelines mentioned in any part of this Code of Conduct may also be considered an offense that may carry up to the same punishment as the original offense.

25.3.19 Unlawful Acts

Any act by a student, alumnus or student organization which occurs on campus, or off--campus but while representing the University, which is a violation of law according to Pakistan Penal Code or other applicable law. The University reserves the right to conduct disciplinary proceedings even if litigation is pending or concluded in a court of law. The University also may refer any violation of law to the Police or other judicial authorities.

25.3.20 Abuse of Disciplinary Proceedings

- a. Any form of non-compliance of disciplinary proceedings or an attempt to subvert the disciplinary process, including, but not limited to:
- b. Failure to appear before the Disciplinary Committee or subcommittee, or to file statements or evidence required by the committee.
- c. Providing false testimony or statement to the Disciplinary Committee, sub--committee or to an officer of the University investigating a case for submission to the Disciplinary Committee.
- d. Trying to coerce someone from filing a legitimate complaint to the Disciplinary Committee.
- e. Knowingly filing a false complaint to the Disciplinary Committee.
- f. Attempting to influence the impartiality of a member of the Disciplinary Committee.
- g. Violating the right of privacy of a person with respect to disciplinary proceedings.
- h. Failure to comply with disciplinary sanctions.

25.4 Academic Dishonesty

Development of academic integrity amongst members of the LUMS community is an important component of the LUMS programs. Faculty members, teaching assistants, and students are expected to conduct themselves ethically and professionally in all aspects of their life at LUMS.

Academic dishonesty is any type of cheating or use of unfair means in the academic context. Academic dishonesty includes, but is not limited to:

- a. **Plagiarism:** Plagiarism is representing someone else's work as your own. Copying someone else's work, without appropriate citation, will constitute plagiarism. At LUMS, training to understand plagiarism is provided in introductory courses. Please see the sections below for an understanding of plagiarism.
- b. **Cheating and Unfair Means:** Unfair means include discussions and exchange of all such class notes and written material between the current classes and former students that may subvert the learning process. Exchanging or passing information to other students over the network during lab exams is also considered cheating.
- c. **Fabrication:** Fabrication of results, data, or any other information or citation, or falsification of such information.
- d. **Sabotage:** An act that prevents others from accessing academic resources that are needed to complete their work.
- e. **Services:** Paying, or obtaining for free, services from someone to complete academic work that was required to be completed by oneself. Receiving payment or providing services to complete someone else's work.
- f. **Impersonation:** Appearing on someone else's behalf in an examination, completing someone else's homework, or proxy--marking attendance of someone else.
- g. **Misrepresentation to avoid academic work:** Providing false information to gain leniency, making an excuse such as illness, death in family or accident.
- h. **Aiding and Abetting in Academic Dishonesty:** Knowingly aiding in plagiarism or any other form of academic dishonesty, for example, by providing solutions of assignment to another student.
- i. **Other:** Failure to comply with any standards of academic honesty imposed by a faculty member or a department.

25.4.1 What is plagiarism?

“Plagiarism is the use, without acknowledgement, of the intellectual work of other people, and the act of representing the ideas or discoveries of another as one’s own in written work submitted for assessment. To copy sentences, phrases or even striking expressions without acknowledgement of the source (either by inadequate citation or failure to indicate verbatim quotations) is plagiarism; to paraphrase without acknowledgement is likewise plagiarism. Where such copying or paraphrasing has occurred, the mere mention of the source in the bibliography shall not be deemed sufficient acknowledgement; each such instance must be referred specifically to its source. Verbatim quotations must be in inverted commas, or indented, and directly acknowledged.” (University of Sussex Examinations and Assessments Handbook 2012/13)

25.4.2 What is a source?

Sources are published (print or electronic) primary and secondary material as well as information and opinions gained directly from other people.

25.4.3 Types of plagiarism

Plagiarism falls under two broad categories:

- a. Copying an entire document, or part of a document as your entire paper;
- b. Mosaic plagiarism i.e. mixing the words and ideas of a source with your own, or mixing the words and ideas of two or more sources without acknowledgement.

Plagiarism usually takes one of these forms:

- a. Incited idea: passing off someone else’s idea as your own.
- b. Incited information or data from a source: not acknowledging the source of any fact, figure, event, statistical data, or information provided.
- c. Verbatim phrase or passage that is not quoted: any direct quotation that is not in quotation marks or indented and not referenced at the end of the quotation.
- d. Misrepresenting evidence: information from a source that has been changed or taken out of context to suit your paper/argument.
- e. Dual submission: submitting the same paper or parts of a paper to more than one course/instructor.
- f. Abetting plagiarism: knowingly helping another student to plagiarize by letting him/her copy your paper, selling a paper to a student, or by writing all or part of a paper for another student.
- g. Commercial tutoring services: making use of the services of a tutoring school or term paper company to write papers.

25.4.4 Tips to avoid Plagiarism:

- a. Avoid leaving work on your assignment until the last day. It is likely to create a panic situation in which one may not make the best decisions.
- b. Avoid relying mainly on a single source for information or opinion. It is likely to result in excessive reliance on the thought process of that source.
- c. Avoid borrowing another student’s assignment or notes.
- d. Avoid preparing your solution from borrowed notes.
- e. Do not write your solution with another student, or directly from notes taken when discussing the assignment with another student. Even if discussion was allowed, it is better to leave your notes of discussion aside and write up the solution entirely on your own.

- f. Always back--up your work and make a hard copy wherever it is appropriate to avoid problems created by computer failure.
- g. Always keep your notes and drafts until a paper has been returned.
- h. If you feel confused or panicked about time, or if you are having problems that do not let you concentrate, let your instructor or teaching assistant know before the submission deadline.
- i. Note--taking: When taking notes from a source, always begin by writing down the full bibliographic information (author, title, date of publication, publisher, place of publication, page numbers). Always distinguish between the author's own words and your own points. Do not take notes by carelessly copying and changing a few words. Take notes in a separate document. Do not mention sources in your bibliography that have not been mentioned in your paper.

25.5 University Disciplinary Procedures

25.5.1 The Committees on Discipline

There are two types of Disciplinary Committees charged with investigating violations of the code of conduct: one for academic offenses and the other for non-academic offenses. There is one Disciplinary Appeals Committee. All these Committees comprise of faculty members and administrators. The two Committees are responsible for the administration of the stated rules and regulations governing general conduct, for assessing reported violations, and, when necessary, for assigning and recommending appropriate penalties.

25.5.2 Right to Disciplinary Proceeding

Except in cases where temporary suspension is ordered by the Vice Chancellor, or in cases of alleged sexual harassment which are overseen by Sexual Harassment Inquiry Committee; please see the handbook section on Office of Accessibility & Inclusion for more information about this committee. In cases of pre-approved penalties that administrative departments are allowed to impose, any disciplinary sanction may not be imposed without a disciplinary proceeding in accordance with the following University Disciplinary Procedures.

Right of the Accused: The accused has the right to be treated respectfully and professionally by the committee and staff throughout the disciplinary process.

25.5.3 Initiation of Disciplinary Proceedings

1. Complaint: Any member of the university community may file a written complaint of misconduct against a student, alumnus or organization alleging misconduct under the Student Code of Conduct or other published university policy or regulations prescribing a standard of student conduct. The Disciplinary Committee may also take up a case for determination *suo moto* (of its own accord).

Complaints can be filed to the Disciplinary Committee Support Unit at dc@lums.edu.pk. It is desirable that complaints be filed as promptly as possible after gaining information about the alleged misconduct. If a matter is first presented to the Disciplinary Committee within one week of the end of an academic semester, it may be held for consideration in the following semester, including the summer semester, to prevent any delay in the case hearing.

2. Review of Complaint: The Convener of the Disciplinary Committee shall review each complaint to determine whether or not a potential violation of the Code of Conduct has occurred, the Convener can decide on one of three courses of action: (a) initiate disciplinary proceedings, if the Code of Conduct may have been violated; b) dismiss the complaint, if no violation of the Code of Conduct is suggested; (c) refer

the complaint to an administrative department for imposition of pre-approved sanctions that the department is authorized to enforce.

3. Investigation: If the matter so requires, the Convener of the Disciplinary Committee may ask the DC investigator to conduct an investigation to gather evidence that will be presented to the Disciplinary Committee during the disciplinary proceedings.
4. Summons: The Disciplinary Committee will inform the accused in writing of the reason for being summoned, and of a specific day and time when the accused is to appear before the Disciplinary Committee.
5. Written Statement: The Disciplinary Committee will also require the accused to file a written statement before the formal disciplinary hearing, in which the accused will clarify his or her position on the accusation. An accused will normally be given 24 hours to file their statement. However, in cases that have to be dealt with on an urgent basis, this requirement may be waived.
6. Obligation to Admit to Misconduct: As a university, LUMS is committed to truth, and this commitment extends to disciplinary proceedings. All parties to disciplinary proceedings – including the accused – must remain committed to the ideal of truth-seeking and honesty. This means: all statements and information provided must be truthful. Providing false information or making false statements may result in disciplinary action, including but not limited to perjury charges if applicable. (**Note:** while everyone engaged with the proceedings – including the accused – are encouraged and expected to always tell the truth, disciplinary proceedings only penalize wrong or untruthful information/statements and do not penalize silence or withholding of information). Any information provided by the accused, their representatives and witnesses during the investigation will be considered as part of the disciplinary process and may be used as evidence as appropriate.
7. Failure to Appear: The student accused of misconduct, or a student officer of the organization accused of misconduct will be expected to be present at the hearing before the Disciplinary Committee. If the student or a student officer of the organization fails to appear at the time and place designated for the hearing, the Disciplinary Committee shall proceed with the hearing if a majority of the Disciplinary Committee members present are satisfied that the student or organization has received adequate written notice. The Disciplinary Committee members will then proceed in the absence of the student or organization to hear and weigh the evidence in support of the alleged misconduct and render a decision.

25.5.4 Temporary Suspension

Pending initiation of disciplinary proceedings by the Disciplinary Committee, the Vice Chancellor may at any time temporarily suspend a student from the University or deny a student readmission when the Vice Chancellor finds and believes from information coming to his or her attention that the presence of the student on the University campus would seriously disrupt the University or constitute a danger to the health, safety or welfare of persons on the campus. If a student is temporarily suspended by the Vice Chancellor, the Vice Chancellor shall promptly instruct the Disciplinary Committee to initiate appropriate disciplinary proceedings against the student within five working days after temporary suspension is imposed. If a student placed on temporary suspension is ultimately found not guilty of misconduct, such student shall be allowed, if at all possible, to make up academic work missed while on suspension.

25.5.5 Conduct of Hearings

1. Nature of Hearing: The Convener of the Disciplinary Committee will decide whether the testimony of the accused is to be heard in a full committee hearing or is to be referred to a sub-committee. Only cases dealing with academic dishonesty may be referred to a sub- committee. In case the decision is taken by a sub- committee, it will be ratified in a full committee meeting before being communicated to the student.
2. Quorum: The Quorum for a full committee hearing is half of its members, and that of a sub-committee hearing is at least two members.
3. Student Representative: The accused may be accompanied at the Committee hearing by a student representative, who must be a current student at LUMS. The representative must render his or her services voluntarily and not charge the accused for this service. The same representative cannot appear for more than one defendants or witnesses in the same disciplinary case. The representative may advise the accused, but may not directly participate in the hearing, unless requested by the Convener of the Disciplinary Committee. For detailed guidelines, please contact the DC Support Unit at dc@lums.edu.pk.
4. Witnesses or Amicus Curiae: At the hearing any person with information about the matter before the Disciplinary Committee may be requested to appear by the Disciplinary Committee. However, an accused or a complainant cannot name a witness without their consent.
5. Status Pending Disciplinary Proceedings: During any disciplinary proceeding, the status of students or organizations accused of misconduct shall remain unchanged. Students accused of misconduct shall retain their right to be present on campus and attend classes, with suspension only considered by the Vice Chancellor if compelling reasons exist to protect the student's physical or emotional well-being, or the safety and welfare of the University community. Similarly, the status of organizations accused of misconduct shall not be altered, unless the Vice Chancellor deems suspension necessary to safeguard the health, safety, or welfare of the University community.
6. Conflict of Interest: If the complainant in a case is a member of the Disciplinary Committee, that member will not participate in the disciplinary proceedings. Moreover, if a member of the Disciplinary Committee feels that his or her relationship with any individual or organization involved in the proceeding would affect his or her ability to render a fair and impartial decision, such Disciplinary Committee member will request the Convener of the Committee to be excused from the proceedings. The Convener will decide whether to entertain such a request or not, based on the nature of relationship with the accused.

The student accused of misconduct, or a student officer of the organization accused of misconduct may question any Disciplinary Committee member with regards to his or her attitude or knowledge about the disciplinary proceeding to be heard. If a member of the Committee is challenged for cause by the student or organization, the other members of the Committee present shall, without the presence of the challenged member, vote upon the challenge. If a majority of the members present vote to sustain the challenge, the challenged member shall be excused from further participation in the proceeding. The foregoing shall not relieve the Disciplinary Committee from the requirement of maintaining a quorum for the hearing as required above.

7. Closed Hearings: All hearings of the Disciplinary Committee shall be closed to the public in order to comply with the requirements of privacy of proceedings.

8. Evidentiary Rules: The Committee shall not be bound by the formal rules of evidence applicable to a court of law. It may admit and give probative effect to evidence, including hearsay evidence, which possesses probative value commonly accepted by reasonably prudent persons in the conduct of their affairs.

The Committee may only accept evidence that is disclosed to the accused. In exceptional cases, where a majority of the Committee is convinced that revealing the identity of a witness may subject the witness to retaliation, the Committee may decline to disclose the witness's identity. In cases where the identity of the witness can only be concealed by withholding evidence from the accused, the evidence shall be inadmissible. The Committee shall not base its judgment on evidence provided by an undisclosed witness.

9. Verbatim Record: The Disciplinary Committee may record the hearings to keep a record of the hearing for future reference.
10. Burden of Proof: The University bears the responsibility of proving the alleged misconduct against a student or organization by a preponderance of the evidence presented at the hearing. 'Preponderance of the evidence' means that the evidence, when considered as a whole and assessed impartially, persuades the Disciplinary Committee that the alleged misconduct is more likely to have occurred than not. This determination does not rely on the quantity of witnesses but on the overall convincing nature of the evidence. If the evidence is equally balanced or favors the accused, the University has not met its burden of proof. The Disciplinary Committee should evaluate all relevant evidence, not just that provided by the University, to decide if the University has sufficiently proven its case. This includes considering evidence that supports the University's position on a contested issue, even if this evidence is presented by someone other than the University.
11. Decisions: The Disciplinary Committee deliberates and arrives at a decision by individual vote. In order to determine that a student has violated a University rule, a majority of the voting Disciplinary Committee members present must conclude that the evidence presented constitutes a clear and persuasive case in support of the charges against the student. If the student is found to have misled the Disciplinary Committee during the hearing, the Disciplinary Committee may take that fact into account in reaching a conclusion and assigning a penalty.

In matters that have significant precedence value, the Convener of the Disciplinary Committee may delay the vote on a matter for ensuring better participation of Committee members, or to seek more evidence before the decision is made.

If the voting members are evenly divided in establishing guilt on a particular case, the case must be reconsidered at the next meeting of the Disciplinary Committee. If at the second meeting at which the case is considered the regular voting members are still evenly divided, the matter shall be dismissed without prejudice.

The decisions of the Committee shall be communicated to the accused in writing via email and letter. In some instances, the decision shall also be conveyed in person, in addition to the written communication.

12. Mitigating and Aggravating Circumstances: The Disciplinary Committee may consider possible mitigating and aggravating factors listed below. This list is not exhaustive; the specific circumstances of a case may cause the Committee to consider additional factors.

Examples of Mitigating Factors

- Evidence of genuine lack of understanding
- Unclear course policy or instructions.
- The weight of the instrument or the amount of instrument that is plagiarized.
- Cooperating with the Committee through substantial disclosure helps the DC reach its decision. For example, a student voluntarily admitting to the offense upfront, and providing useful information about it that was otherwise not accessible to the Committee, may be considered as substantial disclosure.

Examples of Aggravating Factors:

- Willfully misleading the Committee or falsification of testimony that can be proven by material evidence.
- Attempt to conceal an offense after the initial offense has occurred.
- Any repeat offence of a similar category.

Factors that cannot be taken into consideration

Student's major, GPA, ignorance of Code of Conduct, academic stress, external effects of the penalty, and student's plea of either "guilty" or "not guilty"

13. Privacy

The sanctions imposed on a student or alumnus are recorded in a manner that respects the privacy of the individual and will not be released publicly. However, this information is made available to the following:

- a. The original complainant.
- b. The student's faculty advisor.
- c. Members of the Disciplinary Committee.
- d. Parents of the student or alumnus.
- e. Dean of the relevant school.
- f. Vice Chancellor.
- g. Registrar's office.
- h. Any other office that is required to ensure the implementation of the imposed sanction.

The information about the sanction is also kept on record of the disciplinary committee for future reference and for identifying repeat offenders, as well as the record of the TA coordinator so that they can check whether a student is eligible to become a TA or not.

25.5.6 Sanctions for Non-Academic Offences

For violations of University--wide rules of conduct, members of the community are subject to several kinds of penalties. The applicability and exact nature of each penalty vary on the severity of the offense and its circumstances. For violation of LUMS values (Section 2), violation of guidelines of general conduct (Section 3) and non--academic misconduct (Section 4), the following sanctions may be imposed:

1. Disciplinary Warning: A formal admonition that does not become part of an individual's permanent record, but that may be taken into account in judging the seriousness of any future violation.

2. Disciplinary Probation / Loss of privilege of being TA: A more serious admonition assigned for a definite amount of time, up to two years. It implies that any future violation, of whatever kind, during that time, may be grounds for suspension, suspension with preconditions for return , or in especially serious cases, for expulsion, from the University.

Disciplinary probation appears on an individual's permanent record at the University (but not on the transcript) and may be disclosed by the University in response to requests for which the student has given permission.

3. Educational Sanctions: such as letters of apology, educational workshops, essays or research papers.
4. Reimbursement or Fine: This penalty ought to be awarded only in cases involving vandalism, disorderly conduct and alcohol-related infractions which result in damage to University and/or private property of others.
5. Relocation within or removal from university housing: When appropriate to the infraction, particularly in instances involving anti-social behaviour having a serious impact on the residential community, removal from University housing or relocation within University housing may be awarded as a penalty. In the case of a first-year student or a sophomore, this penalty will be imposed only after consultation with the director of the student's residences.
6. Withholding of degree: In cases involving seniors or graduate students, the University may withhold a student's degree for a specified period of time. In such a case, the student may be permitted to remain on campus to complete his or her academic requirements for the degree.
7. Work hours or Community service: A form of restorative or corrective action from the individual responsible for the misconduct. This involves engaging in activities that benefit the community as a means of making amends for their actions. Community services hours include serving within LUMS i.e. library, housing, etc.
8. Behavioural Requirement: Written conditions imposed by a judicial board or a judicial officer that establish specified requirements for the student or organization. This may include a restraining order, that is, a prohibition to approach a certain individual or to refrain from certain acts.
9. Revocation of privileges: Loss of privileges, whether imposed as a standalone penalty or as part of a broader disciplinary action, may involve temporary or permanent restrictions. These restrictions may include:
 - Access to campus facilities,
 - Participation in extracurricular activities, and
 - Holding positions of responsibility, such as teaching or research assistantships, student council roles, or other leadership positions.The duration of the revocation depends on the nature and severity of the offense and may range from one semester to two years or extend until the completion of the student's degree program. The Disciplinary Committee determines the specific penalties and duration during the formal hearing process.
10. Suspension with pre-conditions for returning: Removal from membership in the University for at least the period of time specified by the suspension, with the suspension to continue until certain conditions,

stipulated by the Disciplinary Committee, have been fulfilled. These conditions may include restitution of damages, formal apology, or counseling.

11. Suspension: Removal from the University for a specified period, such as a semester or an academic year. The goals of separation include the following: i) giving the student time away from the community for reflection and growth before returning to the University community (when the misconduct is serious and requires a period of reflection on the community's values, the privilege/ responsibilities entailed in its membership, and the harm done to the community when these values are violated); ii) and/or safeguarding campus safety; iii) and/or fostering accountability to deter future misconduct.
12. Expulsion from University: Permanent removal from membership in the University without hope of readmission to the community.
13. Censure: University censure can be added to any of the other penalties listed above, except warning. Censure indicates the University's desire to underscore the seriousness of the violation and the absence of mitigating circumstances and to convey that seriousness in response to future authorized inquiries about the given individual's conduct or character.
14. Suspension or dissolution of a student organization: Suspension or dissolution of a student organization may result in loss of recognition, funding and privileges, as well as disbandment of leadership and termination of affiliation with external entities, contingent upon the severity of misconduct and university policies. Such cases are referred to the Dean OSA to decide or make appropriate referral to the Disciplinary Committee.

Disciplinary sanctions will not normally affect the status of financial aid of a student. However, if good conduct conditions are imposed by an external donor as a condition for award of financial aid, then the financial aid award may be curtailed or suspended by the Office of Financial Aid, to comply with donor's conditions.

25.5.7 Sanctions for Academic Dishonesty

The Disciplinary Committee will select from the following set of penalties when dealing with cases of plagiarism, sorted by decreasing severity. A guilty verdict puts a student on probation, and a repeat academic offense will be given harsher penalty.

- Expulsion from the university
- F in the course + separation for one year ¹
- F in the course + separation for one semester
- F in the course
- Zero in the Instrument² + Double Letter Grade Reduction (DLGR)
- Zero in the Instrument + Letter Grade Reduction (LGR)
- Zero in the Instrument + Grade Reduction (GR)
- Zero in the Instrument³
- Warning Letter

¹ Separation will be effective from the subsequent semester. For graduating students, degree will be delayed. Summer semester will not count as penalty for one semester separation but will count in one--year separation.

² "Zero in the Instrument" means zero will be given in the specific academic activity in which plagiarism is committed. For example, if a portion of Assignment 3 in a course is plagiarized, zero will be given in Assignment 3, not in all the assignments of that course.

³ In cases where the instrument has very high weight, zero in the instrument may be a more severe penalty than just grade reduction. In such cases, the Committee may award only grade reduction after the instrument has been graded.

25.5.8 Disciplinary Appeals Committee (DAC)

The Disciplinary Appeals Committee (DAC) serves as an official platform for students to lodge appeals and seek a review of decisions made by the disciplinary committee. As an appellant body, its primary responsibility is reviewing the appeals to dispute the decision of a disciplinary proceeding.

The DAC reserves the right to interpret and enforce academic regulations; it also has the right to approve of exceptions to these regulations as necessary. Students who wish to appeal against a decision made by the Academic or Non-academic Disciplinary Committee can approach the DAC by contacting dac@lums.edu.pk within 72 hours of receiving the decision of a disciplinary proceeding (Academic or Non-Academic) i.e., from the date of decision by the Disciplinary Committee. The DAC, if it accepts the appeal for hearing, shall follow the same procedural rules regarding conduct of hearings as applicable to the Disciplinary Committee.

The purpose of an appeal is not to reexamine the factual aspects of the disciplinary case. An appeal does not serve as a means to review the factual information of a disciplinary case. It is important to note that the purpose of the appeals process is not to reopen all cases from the beginning. A case may only be reconsidered if the appellant believes that one or more of the following conditions apply:

- They were not given an adequate opportunity to present their side during the investigation of their offense.
- There is reasonable evidence that the decision of the Disciplinary Committee is tainted with bias or there is an absence of procedural fairness on any other account.
- New and compelling evidence has surfaced that was not available during the original investigation conducted by the Disciplinary Committee.

If the Disciplinary Appeals Committee accepts an appeal for a hearing, it will adhere to the same procedural rules that govern the conduct of hearings as applied to the Disciplinary Committee

Letters of appeal that simply express dissatisfaction with the judgment of the Disciplinary Committee without providing evidence of a flawed investigative process, bias on the part of the judges, or new evidence will be rejected. Disagreement with the decision, feeling that the penalty is harsh, or experiencing negative emotions such as disappointment, grief, or shock are not legitimate grounds for appeal. Likewise, factors such as good academic performance before or after the offense, character witnesses, or claims that the offense was a one-time occurrence are not considered valid grounds for appeal.

The Disciplinary Committee (Academic and Non-Academic) has the role to impose penalties from a predefined list of sanctions, but it should be noted that this list is not exhaustive. In the case there is no defined penalty for a particular misconduct, the Disciplinary Committee retains the right to sanction based on the principles and guidelines outlined in the code of conduct.

Students have the right to request an appeal of a decision made by the Disciplinary Committee (DC), and the Disciplinary Appeals Committee (DAC) conducts a thorough review of each case. The DAC carefully considers the grounds presented in the appeal and proceeds to either approve the appeal, leading to a revision of the decision, or reject the appeal if it does not meet the criteria outlined or lacks substantive grounds for appeal.

25.5.9 Sexual Harassment

Harassment is a violation of human rights, is demeaning to human dignity and is unacceptable in a healthy work and academic environment, specifically one in which scholarly pursuit may flourish. LUMS will not tolerate sexual harassment of any member of the LUMS community and will strive through education and deterrence to create an environment free from such behaviour on its premises.

LUMS is guaranteed to be a safe space for all those who inhabit the institution in any capacity. To this end, any harassment, sexual or otherwise, is strictly prohibited under LUMS policy and national law.

Sexual harassment often (but not necessarily) involves a power dynamic, for instance between a supervisor and employee, a teacher and a student, or junior and senior colleagues. These cases may involve an exchange for some benefit or some threat of harm, or they may simply take advantage of the power dynamic to create or condone an environment of harassment. Unfortunately, in such cases, the power dynamic not only helps create a space conducive to harassment but may also make it more difficult to report.

“Harassment” includes, directly or by implication,

- i. any unwelcome, non-consensual sexual gesture, advance or activity,
- ii. persistent and unwelcome flirting, request for sexual favors, sexual innuendo,
- iii. verbal or written communication (whether electronic or otherwise) of a loaded nature,
- iv. non-consensual physical conduct of a sexual nature including assault, exploitation, and sexual violence,
- v. sexually demeaning attitudes,
- vi. stalking or otherwise interfering with someone’s sexual privacy, such as taking pictures, videotaping, viewing or sharing explicit images without consent,
- vii. causing interference with work performance or creating an intimidating, hostile or offensive campus environment, or
- viii. the attempt or threat to punish the complainant for refusal to comply to requests for sexual favour, or
- ix. the placing of a sexual favour as a condition for employment, promotion, grades or evaluation of a person’s professional engagement in any activity.
- x. Discrimination on the basis of gender, which may or may not be sexual in nature, but which may embody a discriminatory and prejudicial mind-set or notion, resulting in discriminatory behaviour on the basis of gender against the complainant

Sexual harassment can be physical or psychological in nature. It may be perpetrated using electronic media as well as in person. An aggregation of incidents can constitute sexual harassment even if one of the incidents considered on its own would not constitute harassment.

Sexual harassment is especially egregious and will be sanctioned as such if the Inquiry Committee finds that the Accused knew or ought reasonably to have known that the Complainant/victim was in an impaired or incapacitated state. Impairment of the Accused, for instance due to the use of any illegal substances, shall not diminish their responsibility for harassment under this Policy.

This list is not exhaustive, and individual behaviours may be found to constitute harassment by the Inquiry Committee using this definition as a guideline.

The committee can be reached with complaints of sexual harassment at harassment@lums.edu.pk . For further details regarding basic terms, policies, and procedures regarding sexual harassment at LUMS, please refer to the Office of Accessibility and Inclusion under the Section 3: Administrative Offices.

26. Academic Standing

Academic standing is a measure of the student's academic achievement, relative to his/her degree requirements. It determines the eligibility to continue in the chosen academic plan and to qualify for graduation.

To remain in good academic standing, students are required to maintain a minimum CGPA of 2.00 at the end of each regular semester and during their study.

26.1 Academic Warning

Academic warning (unlike probation based only on CGPA) is based on the regular semester GPA as well. A warning letter is issued to indicate that students must seriously focus on their studies, as they run the risk of being put on probation if they do not improve their academic performance.

Warning letters are issued:

- If the Semester GPA in any regular semester falls below 2.00, regardless of the CGPA.
- If CGPA is below 2.50 but is above 2.00.

26.2 Probation and Separation

The academic performance of a student is closely monitored by the Office of the Registrar, especially during his/her warning and probation period. Students who fail to demonstrate a marked improvement in their academic performance while on probation are separated from their respective academic programmes. Students may go on probation without receiving an academic warning beforehand.

A student is placed on academic probation as listed below:

- If the CGPA falls below 2.00 at the end of any regular semester.
- If the CGPA of the student is below 2.00 for two consecutive regular semesters (Fall and Spring), then s/he is separated from the programme.

Note: If the academic performance of a student improves and CGPA is equal to or above 2.00 then the student regains good academic status.

Probation/Separation Conditions for First year students

If Semester GPA in any semester falls below 2.00, regardless of the CGPA the student is advised (by respective department/faculty advisor) to take less semester workload. Such students will not be allowed to take more than 14 credit hours in the semester.

In the case of first year student, if the CGPA falls below 2.00 at the end of the Fall semester (first semester after admission), the student is placed on probation in the next regular semester, i.e. Spring semester. After the Spring semester, if CGPA remains below 2.00 then the student is separated from the academic programme with immediate effect.

Please recall that first year students are not allowed to take the first semester off. If a first-year student while on probation takes the second semester off, s/he is placed on academic probation in the semester that s/he re-joins.

Probation/Separation Conditions in the Subsequent Years at LUMS

In the subsequent years, the probation period can be extended over a maximum of two regular semesters (Fall or Spring).

To this end, Probation Semester GPA (PSGPA), which is the cumulative CGPA since the beginning of probation, is tracked. The PSGPA ascertains the student's performance after probation and determines whether student continues to be on probation or is to be separated. Figure 1 presents these conditions.

Probation is extended for only one regular semester for students having a PSGPA equal to or more than 2.50 at the end of first regular probation semester, while the CGPA is still below 2.00.

If the CGPA remains below 2.00 at the end of second probation semester, the student is separated from the programme.

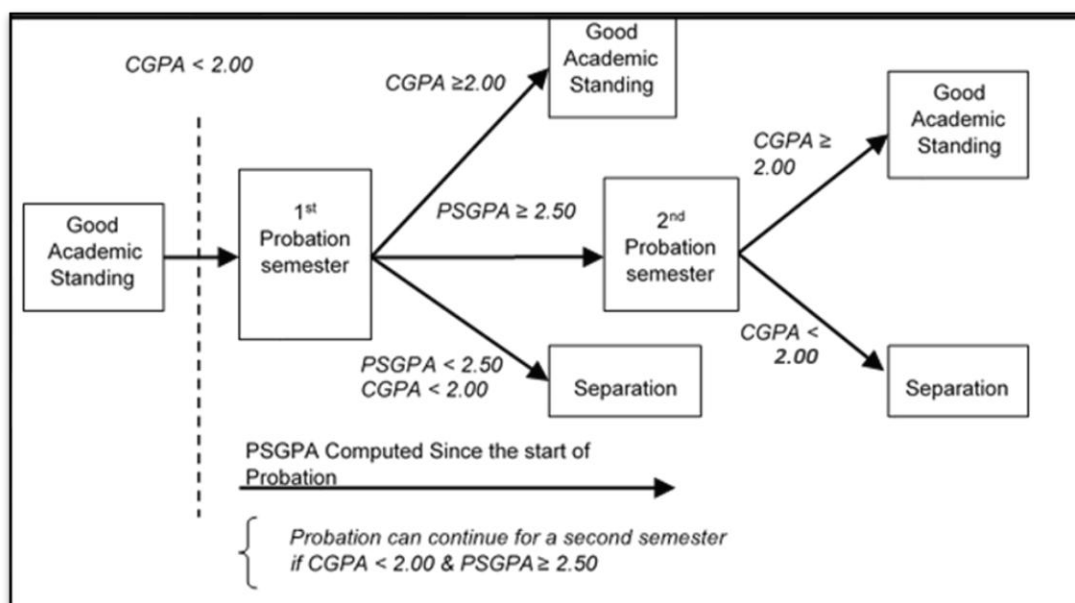
Students on probation, who are allowed to withdraw from a semester, can resume their studies with their probationary status unchanged. Please note that decisions regarding academic standing are taken at the end of regular semesters only.

Senior Year Students: For courses, which are spread over two consecutive semesters (e.g., Senior Projects), grades are finalized at the end of the course. Students will receive the same finalized grade in each semester over which the course was spread. As a result, if the student's CGPA falls below 2.00 in two consecutive semesters, the student is separated from the programme with immediate effect. In such cases separation from the programme takes place without the student being placed on probation.

Curb on Co-Curricular Activities for Students on Probation

For students on probation, involvement in co-curricular activities should be limited till the regaining of good academic standing. Students on probation cannot take part in extracurricular activities and events which will result in them missing graded instruments at LUMS.

Students on probation cannot serve as office bearers or shoulder responsibility in any student organization, club, society or extracurricular activity. It is the student's responsibility to inform the respective organization and resign from such a position. Failing to act responsibly may expose the student to disciplinary proceedings.



Probation and Separation Letters

Students who are placed on probation or are separated from the Programme are informed via email and letters. Probation and separation letters are also dispatched to the students through courier service on their mailing addresses available in Zambeel.

Support for Students at Risk of Academic Separation

Enrollment Review and Course Adjustments: Undergraduate students identified as being at risk of academic separation must have their course enrollment plans reviewed and obtain formal approval from their School's Advising Unit (AU) to finalize enrollment and to make any course changes during the add/drop period. The Advising Unit may modify/adjust a student's course selection or overall credit load to ensure appropriate academic support, facilitate steady academic progress, and improve retention and graduation outcomes. Students considered at risk of academic separation include, but are not limited to:

- Students readmitted after academic separation and at risk of a second (final) separation from LUMS
- Students currently on academic probation
- Students nearing time-barred status (within one year of reaching the maximum allowed time to complete their degree)
- Students at risk of separation due to failing a core course for the third time
- Students returning after one or more semesters off due to health or personal reasons may also be included in the purview of this policy on a case-by-case basis depending on the circumstances leading to their time off from LUMS.

26.3 Readmission upon Separation

Students separated from the programme based on academic performance are eligible to apply for readmission. For further information, refer to the Readmission Conditions.

Academic Standing Committee (ASC)

The ASC is responsible for interpreting and enforcing the academic regulations of the university and approving exceptions to them as circumstances warrant. The committee is responsible for taking up cases regarding the readmission and academic standing of vulnerable students.

The committee, following the University defined guidelines, has the discretion to accept or reject applications. Readmission is offered only in those cases in which there is clear evidence that the causes leading to poor academic performance in the past have been removed.

All readmission applications should be addressed to the Convener, Academic Standing Committee and sent to the Office of the Registrar, LUMS for deliberation by the committee.

If senior year students, i.e., students who have completed 95 or more credit hours, are eligible for separation (For Law students, the senior category is determined at 118 or more credit hours), the Academic Standing Committee may recommend continued probation, suspension (mandatory separation for a fixed number of semesters) or any other conditions applicable on a case-to-case basis on the recommendation of the school.

In cases where senior category readmitted students are eligible for separation; the above-mentioned policy is not applicable. The conditions specified in their readmission letter are applied to such students and they are separated with immediate effect.

Continuation of Semester after receiving Separation Letter

Students subsequently separated from the programme based on their academic performance but enrolled in the Summer semester (immediately after separation), are given **the option** to drop the course without any penalty, if they inform the Office of the Registrar before mid-semester. In such cases, the courses are removed from the transcript and fee is refunded.

However, if the student does not opt to drop courses taken in the Summer semester, the courses will show on the transcript with the grades assigned by the instructor. In case of readmission, the Summer course grades are not counted towards the CGPA, but the credits are transferred subject to meeting the readmission criteria.

The above policy regarding Summer Semester is also applicable in case of final separation of a student.

Readmission Conditions

- Students are only eligible to apply for readmission within 2 weeks from the issuance date of the separation letter or as specified in the separation letter.
- Students who are separated on academic grounds and then are readmitted are placed on academic probation for the rest of their stay at LUMS.
- Readmission fee is applicable as per University policy.
- Students can be readmitted only once.
- Students separated from the programme based on disciplinary action will not be considered for readmission, nor will they be eligible to apply as fresh candidates.
- It is mandatory for students separated from the programme on academic grounds to take next regular semester off.
- All courses taken by a student at LUMS will show on the transcript, even if the student has been readmitted.
- Courses with grade **C+ or above** are given as credits on readmission.
- Credit hours of courses for which credit is given on readmission count towards the graduation requirements, but the course grades are not included in the calculation of CGPA and specialization GPA.
- Courses for which credit hours are given (after readmission) are not to be repeated.
- After readmission, in the first regular semester (Fall or Spring), the students are required to obtain a minimum semester GPA of 2.50. Please note that as per University policy, the academic standing decisions are taken at the end of a regular semester. They are required to maintain a minimum CGPA of 2.00, thereafter, at the end of each regular semester, to continue with the programme. In case their CGPA dips below 2.00 in any regular semester, they are separated from the programme without any warning.
- In case of readmission, the student must finish the undergraduate programme within the maximum allowable time for the respective programme i.e., six years (BS/BA-BSc) and seven years (B.A.-LLB) from the original date of joining LUMS.
- Readmitted students who are subsequently finally separated from the programme on academic grounds cannot apply as fresh candidates.
- Once a student has been separated from LUMS (at any stage) on academic grounds and has not been readmitted, s/he is allowed to apply as a fresh candidate only once.

26.4 After Withdrawal or Separation

Students who withdraw, are separated or leave the University without informing the Office of the Registrar at any time during the year may apply for online clearance using Zambeel self-service. Upon successful online clearance from all respective departments, the student is entitled to get his/her final settlement done from LUMS. In case a student does not get clearance or does not complete the clearance process, the security deposit is not refunded.

Online clearance is mandatory for the student to be eligible for the issuance of any official university document.

27. Academic Honours at LUMS

Academic honours encompass end of semester recognition, end of the year recognition and all the way up to honours and medals at the time of graduation. **Please note that repeated courses do not count towards honours and awards, throughout the degree tenure.**

The University has defined policies to recognize high achievers and best performing students as discussed in detail below:

27.1 Honours

At the time of graduation, excellence in academic performance is recognized, according to the below listed criteria:

- Graduation with High Distinction CGPA of 3.8 and above, mentioned on transcript and award of High Distinction plaque and certificate.
- Graduation with Distinction CGPA of 3.6 to 3.79, mentioned on transcript and award of Distinction plaque and certificate.
- Graduation with High Merit CGPA of 3.30 to 3.59, mentioned only on transcript.
- Graduation with Merit CGPA of 3.10 to 3.29, mentioned only on transcript.

27.2 Medals

- At the time of graduation, all graduating students compete for medals/awards.
- If an external transfer student secures the highest GPA among the students of his/her graduating major s/he will be considered for awarding of medal along with the any other regular student as per his/her performance and eligibility criteria.
- However, a student who obtains admission at LUMS with 58 credits (after completing 58 credits at the host university) and takes another exchange semester at another university and does not complete 72 credits at LUMS, will not be considered for a medal.

National Management Foundation (NMF) Gold and Silver Medal for Overall Top Positions

- The student with the best academic record, having the highest CGPA within the range 3.90 to 4.00, receives a gold medal for overall first position.
- The student with the second highest CGPA, which should not be less than 3.60, receives a silver medal for overall second position.

In case there is a tie for the overall first position and the overall second position, the tie is broken according to the following University defined criteria:

- CGPA is extended up to 6 decimal places for comparison; the student with the highest CGPA thus established, is eligible for the medal.
- If the tie remains, the highest number of A+ grades obtained in 3-4 credit hour courses are counted. The student with the highest number of A+ grades will qualify for the medal.
- If the tie remains, then the highest number of A grades obtained in 3-4 credit hour courses are counted. The student with the highest number of A grades will qualify for the medal.
- In case the tie remains, both students receive the gold medal and there is no silver medal.
- If the overall first position is not tied, then for the overall second position, in case of a tie, the above defined University process is followed.

27.3 Medals – Specialization (Major)

At the time of graduation, the student with the best academic performance in the area of specialization (major), having SCGPA equal to 3.85 or higher and CGPA equal to 3.60 or higher, receives the major gold medal.

In case there is a tie for the top position in the area of specialization, the tie is broken according to the below University defined criteria.

- SCGPA is extended up to 6 decimal places for comparison; the student with the highest SCGPA, thus established, is eligible for the medal.
- If the tie is not broken, the student with the higher CGPA will qualify for the medal.
- In case the tie remains, the highest number of A+ grades that count towards the major are considered. The student with the highest number of A+ grades will qualify for the medal.
- In case the tie still remains, the highest number of A grades that count towards the major are considered. The student with the highest number of A grades will qualify for the medal.
- In case the tie remains, both students will receive the specialization gold medal.

27.4 Other LUMS Medals

Best Player of the Year

The objective of the Best Player of the Year Medal is to recognize and honour graduating students who have excelled in sports during their four years at the LUMS. The Medal aims to acknowledge outstanding athletic achievements, leadership qualities, sportsmanship, and contributions to the LUMS's sports community. The two categories of sports medals are as follows:

- LUMS Sports Medal – Male
- LUMS Sports Medal – Female

LUMS Valedictorian Medal

The LUMS Valedictorian Medal is conferred to the Valedictorian of the graduating class based on academic as well as other non – academic achievements.

The recipients of these medals are selected by the relevant committees following thorough criteria and a rigorous selection process. For detailed eligibility criteria for the sports and valedictorian medals, please contact the Office of Sports, Wellness and Recreation and Office of the Student Affairs respectively.

27.5 Undergraduate Semester Wise/End of the Year Academic Recognition

At the end of each regular semester/academic year (Fall and Spring semester only), students who have performed exceptionally well are placed on the Semester and/or End of the Year Dean's Honour List. The following criteria must be met by the undergraduate students for academic recognition.

Semester (regular) recognition: Students who have successfully completed at least 16* credit hours in a regular semester and have achieved a semester GPA of 3.60 or above (computed based on the courses taken in Fall or Spring semester, not applicable in case of Summer semester) are placed on Dean's Honour List. The remarks "Placed on Dean's Honour List" are mentioned on the transcript. There is no University ceremony for such a recognition.

**Not applicable in the case of final semester before graduation.*

End of the Year recognition: Top position holders with the best academic performance are recognized, as per University policy.

In case of a tie in the end of the year award for overall top position in each category (Sophomore, Junior, Senior), the following University defined criteria is followed:

- CGPA is extended up to 6 decimal places for comparison; the student with the highest CGPA, thus established, is eligible for the top position.
- If the tie still remains, the highest number of A+ grades obtained in 3-4 Cr. Hr. courses are counted. The student with the highest number of A+ grades will qualify for the top position.
- If the tie still remains, the highest number of A grades obtained in 3-4 Cr. Hr. courses are counted. The student with the highest number of A grades will qualify for the top position.

After considering the grades, if a tie still remains, then the student who has completed the highest number of credits (in the particular academic year) will qualify for the top position.

Students are also placed on the End of the Year Dean's Honour List upon successful completion of at least 32 credit hours in an academic year (two regular semesters: Fall and Spring only), with a Cumulative GPA of 3.60 or higher (CGPA calculated since admission term).

Only in the case of first year students, the minimum credits to be completed to be eligible for DHL is 30 Cr. Hrs. (instead of 32), the CGPA should, however, still be 3.60 or above. For the remaining years, it is mandatory to complete 32 credit hours as mentioned above. This is applicable to all schools at LUMS.

Such students are acknowledged with remarks "Placed on Dean's Honour List for the academic year (XXXX-XXXX)" mentioned on the transcript. A University ceremony is also held in their honour and a certificate is awarded.

28. Graduation Tracking

To fulfil the graduation requirements students must be in good academic standing. They cannot graduate while on academic probation.

The process for graduation is defined below:

28.1 Graduation Audit Form (GAF)

To assess if all the graduation requirements have been fulfilled, students in their final semester are required to confirm in Zambeel that they wish to graduate.

Only the students who complete their graduation requirements in their final semester, i.e., the Spring semester (in case of late/early graduates in the prior Summer or Fall semester) of the academic year and submit their Graduation Audit Form (GAF) within the announced deadline, are allowed to participate in the upcoming annual convocation. Once the GAF has been submitted and requirements have been verified by the respective department/school and the Office of the Registrar, the student's course enrollment is locked. GAF once verified and approved by the department will not be reverted.

Please note that a different major other than the one assigned in Zambeel cannot be declared at the time of submission of GAF. This rule holds true even if the student has fulfilled the graduation requirements for that particular major.

All students who are eligible for graduation in a particular year, irrespective of their enrollment year, are in competition for graduation honours.

Students who are involved in a disciplinary case and have not fulfilled the penalty may not be allowed to participate in the convocation ceremony.

Students with their status on hold by the Financial Aid Department may be allowed to attend the convocation ceremony. For all such students, the academic documents remain on hold till the University decisions in their regard are fulfilled and the University clearance process is complete. However, clearance of financial dues is necessary in order to attend the convocation.

Students wishing to withdraw their GAF application, s/he should inform the Office of the Registrar within 14 days after the semester final examination week. Withdrawal requests after the deadline will not be entertained.

28.2 Other Graduation Clearance Requirements

The clearance of graduating students by all departments at LUMS is done through Zambeel. The Office of Student Support Services (SSS), which falls under the Office of Student Affairs, initiates the clearance process for the tentative graduating students.

Students need to fulfil the following requirements for Graduation Clearance:

- Submit an undertaking and return the specified items to the respective departments, latest by the deadline announced by the OSA.
- Return all borrowed books and other issued material to LUMS library, student clubs, IST etc.
- Clear any outstanding dues.

If any item is pending against a graduating student, the respective department will update the requisite status in the student Zambeel self-service. Each student is able to view status of their clearance in Zambeel. If dues are pending, student will receive fee voucher in his/her self-service. To avoid any hindrance in graduation, the dues must be cleared within the stipulated deadline.

Only students fulfilling the clearance requirements are allowed to attend the annual convocation and receive degrees.

Students who do not wish to attend the Annual Convocation after confirmation should inform the Office of the Registrar within 14 days after the semester final examination week.

Students willing to attend the convocation after declining the initial request to attend also need to inform the Office of the Registrar within 14 days after the semester final examination week.

Note: Any request after the above-mentioned deadlines will not be entertained.

28.3 Graduation Denied

A student's name is removed from the list of graduating students if:

- The student is unable to fulfil his/her graduation requirements in the final year or final semester.
- The student is involved in an unprofessional/disciplinary/Values & Ethics (V&E) incident or is barred from attending the convocation by the relevant Committee.

In case of ineligibility to graduate, students are informed by the Office of the Registrar.

28.4 Name on Transcript and Degree

After admission to LUMS is confirmed, student profiles are created in Zambeel. The information in the profiles is transferred from the on-line admission application filled in by the admitted student. After enrollment and registration, it is the prime responsibility of the student to review his/her respective profile during the LUMS Orientation Week. If there is any discrepancy, especially in the name and/or the date of birth, the student should get it rectified by submitting a duly filled Personal Information Form at helpdeskro@lums.edu.pk available at RO Portal.

The name on the transcript and degree is printed from the information available in Zambeel, which is considered final.

Note: As per the instructions of the Higher Education Commission, Pakistan (HEC), the name, father's name and the date of birth of a student must be the same throughout his/her educational testimonials such as Matriculation, Intermediate, Bachelors and Masters onwards to PhD Degrees/Transcripts, as well as on Computerized National Identity Card/ Passport. Otherwise, the documents will not be attested by HEC.

28.5 Degree before Convocation (DBC)

Upon successful completion of degree requirements and issuance of the final transcript, student can apply for his/her degree prior to the convocation. The Office of the Registrar charges the student and issues the DBC. This degree is printed with the text "Degree before Convocation" (DBC). The DBC must be returned before or upon receiving the regular degree at convocation. The charges for the DBC are in addition to the convocation charges and are not refunded once the DBC is returned.

All LUMS dues must be settled before a request is placed for DBC, or else the degree is not issued and remains on hold till the dues are settled.

28.6 Walking In Convocation

Purpose:

The purpose of this policy is to establish guidelines for allowing students, who have not yet completed their graduation requirements, to walk in the Convocation procession with their batch and to attend the ceremony, henceforth referred to as "Walking in the Convocation"

Eligibility Criteria:

Students who are within two courses of completing their graduation requirements by the end of the immediately following summer semester, and are enrolled in these courses, may be allowed to participate in the LUMS Annual Convocation. Students with an 'I' grade in the Spring semester will only be allowed if they intend to complete their thesis in the immediately following summer semester. This is subject to the approval of the respective departments.

Degree Conferral:

The names of such students will not be called out during the current Convocation ceremony in which they are walking, and nor will they be called up on the stage.

Their degree will be formally conferred as part of the subsequent convocation once they have met all degree requirements. These students will have the option of attending that convocation ceremony once their name is formally part of that year's final list of graduating students.

28.7 Award of Regular Degree on the Convocation Day

On the day of Convocation, degrees are awarded only to the graduating student in person. After the convocation, graduates may authorize their representatives to collect the degree from the Office of the Registrar on their behalf on working days between 1500 hours to 1700 hours, by writing to RO and providing CNIC or LUMS Smart card details of the authorized person.

28.8 Awarding Degrees in Absentia

Purpose:

The purpose of this policy is to establish guidelines for awarding degrees to students who are unable to attend the graduation ceremony in person, henceforth referred to as "degrees in absentia." This policy ensures that deserving candidates receive their degrees without the need for physical presence at the ceremony.

Eligibility Criteria:

- a. Students eligible for degrees in absentia must have fulfilled all academic requirements for their respective degree programs.
- b. Subject to the completion of degree requirements, the student's name is added to the final list of graduating students for that year.

Degree Conferral:

- a. The student's degree will be conferred during the graduation ceremony.
- b. The student's name will be called out on the stage. No individual except the student can collect the degree on stage.
- c. The degree conferred in absentia holds the same status and recognition as degrees conferred in person.

28.9 Awarding a Posthumous Degree

Purpose:

The purpose of this policy is to establish guidelines for awarding a posthumous degree to a student who has unfortunately passed away prior to the completion of his/her degree requirements, henceforth referred to as "Posthumous degree".

Criteria:

- a. The deceased student, if an undergraduate, must have attained junior level status in his/her respective programme (i.e. junior in undergraduate (BSc (Hons)/BS/BA programmes or 1st year Law in the B.A.-LLB (Hons) programme).
- b. A graduate student should have completed two-thirds of the degree requirements.
- c. Doctoral students, who have advanced to candidacy, may qualify for a posthumous degree.
- d. The deceased student must have been in good academic standing in their academic program. (This translates to a minimum CGPA of 2.0 for an undergraduate student, and 2.5 for a graduate student).
- e. The deceased student must have no record of pending or previous (serious) disciplinary action.

Degree Conferral:

- a. The deceased student's degree will be conferred during the graduation ceremony.
- b. An invitation to attend the ceremony and receive the degree on behalf of the deceased student will be sent to his/her parents. A family member may collect the degree on stage. For further details regarding the initiation of request and approval process, please contact Office of the Registrar (RO).

28.10 University Clearance, and Security Refund

Once admitted, all students upon leaving the University, must go through the University clearance process. The Security amount which is deposited by a student at the time of admission is refundable, after graduation/withdrawal/separation/admission cancellation/unauthorized withdrawal from the respective programme through LUMS Online Clearance Process.

A student who has withdrawn from LUMS, has been separated/dismissed/expelled, has had his/her admission cancelled or has left the University without informing at any time during the year, should apply for clearance using Online Clearance (Zambeel Self-Service) System. The online clearance process is initiated by the Office of the Registrar and the student is required to follow this process starting with the return of the LUMS Smart card to the Campus Security department. It can also be dispatched at the following address to process security refund: Campus Security Office, LUMS, Lahore.

The student is entitled to his/her final settlement by LUMS upon successful (online) clearance from all respective departments. University documents (transcripts/letter/attestations) are issued by the university subject to successful online clearance.



Academic Departments & Programme Outlines

SULEMAN DAWOOD SCHOOL OF BUSINESS (SDSB)

Introduction

The Business School, established in 1986, was the first school at the Lahore University of Management Sciences (LUMS). In 2004, the Business School was renamed the Suleman Dawood School of Business (SDSB) in light of the generosity of the Dawood family over the years. For over three decades and more than 4500 graduates later, the business school has impacted business and society and continued innovating and pursuing positive change. Today, SDSB ranks as the best business school in the country and is the only one having attained AACSB accreditation in Pakistan.

The school offers a variety of programmes, including Bachelor's programmes with majors in Accounting and Finance and Management Science, an intensive full-time MBA, an Executive MBA, MS specialist programmes, and a PhD in Management. SDSB will shortly launch a Diploma in Business and an Asian MBA as it further extends its reach outside Pakistan.

QS World University Rankings 2025 by Subject rank LUMS as number one in Pakistan in Business and Management Studies and in the top 250 globally. In addition to this, LUMS has also been ranked in the Accounting and Finance subject area with a global QS World University Ranking of 101–150 in 2025.

The School closely collaborates with various centres, including the Rausing Executive Development Centre (REDC), which offers short executive courses and the Centre for Business and Society. LUMS maintains a deep relationship with the business community, helping it keep the curriculum relevant to the needs of business organisations and ensuring that students and faculty stay exposed to the dynamics of the management world. Business leaders actively interact with faculty and students through frequent visits, seminars, and guest speakers, and their perspectives enrich the classroom experience. Additionally, industry linkages are strengthened by faculty involvement in teaching and training in the executive development programmes attended annually by more than 2000 senior executives and managers. We aim to serve the varying educational needs of a culturally diverse and geographically dispersed student body by preparing them academically, personally, and professionally and providing them access to opportunities to make a difference.

To enrich the academic journey of our undergraduate students, SDSB-LUMS encourages them to explore global opportunities through exchange programmes with international universities around the world. Through our international partnerships, students have the opportunity to take a semester abroad at any of LUMS' partner institutions to build upon and explore a foreign country and a new culture. Moreover, LUMS students have access to one of the most supportive and powerful professional alumni networks worldwide through the LUMS Alumni Network of 15,000+ members.

Vision

We develop ideas and people to shape business and society.

Mission

- a) To advance ethical and thoughtful leadership
- b) To influence practice and policy through knowledge generation
- c) To offer a transformational learning experience

SDSB Undergraduate Academic Programmes

Suleman Dawood School of Business (SDSB) offers two undergraduate programmes in the area of Accounting and Finance (ACF) and Management Science (MGS). The Learning goals and objectives of SDSB undergraduate programmes are as follows:

General Learning Goals & Objectives

Goal 1 –Effective Written and Oral Communication

Objective: Students will demonstrate effective writing and oral communication skills.

Goal 2 –Ethical Understanding and Reasoning

Objective: Students will demonstrate that they are able to identify and address ethical issues in an organizational context.

Goal 3 – Analytical Thinking and Problem-Solving Skills

Objective: Students will demonstrate that they are able to identify key problems and generate viable solutions.

Goal 4 – Application of Information Technology

Objective: Students will demonstrate that they are able to use current technologies in a business and management context.

Goal 5 – Teamwork in Diverse and Multicultural Environments

Objective: Students will demonstrate that they are able to work effectively in diverse environments.

Goal 6 – Understanding Organizational Ecosystems

Objective: Students will demonstrate that they have an understanding of economic, political, regulatory, legal, technological, and social environment of organizations.

Major Specific Learning Goals & Objectives

Goal 7 (a) – Discipline Specific Knowledge and Understanding (for ACF Majors)

Objective: Students will demonstrate knowledge of key business disciplines and how they interact, including application to real world situations.

Goal 7 (b) – Understanding the “science” behind the decision-making process (for MGS Majors)

Objective: Students will demonstrate ability to analyze a business problem, design and apply appropriate decision-support tools, interpret results and make meaningful recommendations to support the decision-makers.

The Accounting and Finance (ACF) Programme

The four-year B.Sc. (Honours) programme in Accounting & Finance equips students with analytical and practical skills required to excel in the dynamic and competitive business environment of the world today. The programme prepares students with knowledge and hands-on experience to process and present accounting information according to the needs of the intended users and enables them to use such information for decision making. The finance component of the programme develops students' understanding of finance theory and practices and how financial decisions interface with financial markets to impact firm value. The programme provides students with solid foundations for graduate studies, professional qualifications, and a variety of exciting and challenging careers in accounting and finance.

The Programme has the following key learning objectives:

- Provide students with theoretical knowledge, analytical tools and understanding of the current practices to handle a variety of accounting and finance functions.
- Prepare students with knowledge and hands-on experience to capture accounting transactions, events and conditions, to report them in accordance with the applicable frameworks to internal and external users for decision making and be able to use such information for decision making.
- Develop students understanding of financial theory and practice as it relates to financing and allocation of resources among competing opportunities with the aim of creating value.
- Develop students' intellectual capacity to engage in critical thinking, problem-solving and reasoning, enabling them to deal with complex business issues by integrating theory with practice.
- Develop an understanding of legal, social, political, economic, and technological environments.
- Provide students with opportunities to hone personal and interpersonal skills, including effective communication to enable them to develop as independent, confident and reflective individuals who are capable of taking initiative, when working in and/or leading teams.
- Develop students who can appreciate the importance of sustainable and ethical practices and play their role as socially responsible individuals within the local as well as global community.

Programme Structure - Accounting & Finance (ACF)

Accounting and Finance – Table 1

Accounting & Finance	Credit Hours	No. of Courses
Graduation Requirements	130 – 132	43
University Core	8	3
University Distribution	23	7
□ Out-Group Distribution	9	3
□ In-Group Distribution	12-14	4
ACF Major Requirements	71	23
Business Core	37	12
ACF Major Core	18	6
ACF Internship	04	1
ACF Major Electives	12	4
University Free Electives	29	10

University Core: 8 Credit hrs. [3 Courses]

Kindly refer to Section 1: Undergraduate Programme Policies and Regulations

University Distribution: 23 Credit hrs. [7 Courses]**ACF – Table 2**

Group	In-Group	Out-Group
ACF	ECON, LAW, MGS* Courses	HSS, SSE Courses

**MGS courses are represented through DISC prefixes, except for DISC 203 course which is an Outgroup.*

Out-Group Distribution: 09 Credit hrs. [3 Courses]**ACF – Table 3**

Code	Course Title	Credits
MATH 101	Calculus I	3
MGMT 252	Logic & Critical Thinking	3
DISC 203	Probability & Statistics	3
	Total	9

Only the above-specified courses will be considered to satisfy the outgroup distribution bin requirements for this programme.

In Group Distribution: 12-14 Credit hrs. [4 Courses]**ACF – Table 4**

Code	Course Title	Credits
MECO 111	Principles of Microeconomics	3
MECO 121	Principles of Macroeconomics	3
ECON/LAW	ECON/LAW/MGS* Courses	3/4
ECON/LAW	ECON/LAW/MGS* Courses	3/4
	Total	12-14

**MGS courses are represented through DISC prefixes, except for DISC 203 course which is an Out-group. MECO 111 & 121 courses are equivalent to ECON 111 & 121 courses.*

Business Core: 37 Credit hrs. [12 Courses]**ACF – Table 5**

Code	Course Title	Credits
ACCT 100	Principles of Financial Accounting	3
ACCT 130	Principles of Management Accounting	3
DISC 112	Computer & Problem Solving	4
DISC 212	Introduction to Management Science	3
FINN 100	Principles of Finance	3
MGMT 142	Principles of Management	3
MGMT 212	Business Communication	3
MGMT 242	Business Ethics & Corporate Social Responsibility	3
MGMT 260	Business Law	3
MGMT 400	Strategic Business Management	3
MKTG 201	Principles of Marketing	3
ORSC 201	Organizational Behaviour	3
	Total	37

ACF Major Core: 18 Credit hrs. [6 Courses]

The ACF major core courses constitute of **18 credit hours** as part of the requirements.

ACF – Table 6

Code	Course Title	Credits
ACCOUNTING		
ACCT 220	Corporate Financial Reporting I	3
ACCT 250	Auditing	3
ACCT 320	Corporate Financial Reporting II	3
ACCT 370	Applied Taxation	3
FINANCE		
FINN 200	Intermediate Finance	3
FINN 400	Applied Corporate Finance	3
	Total	18

ACF 494 – Internship: 4 Credit hrs. [Mandatory]

ACF internship (6-8 weeks) is a mandatory degree requirement for all ACF students and students get four semester credit hours for this internship. **A minimum of 6 weeks' duration is mandatory to complete the internship requirement and partial credit will not be given.** Students will require prior approval regarding the nature of the internship from the ACF Internship Coordinator before taking it up.

The pursuit of an internship is a serious responsibility. During their interaction with the host organizations, students represent the Suleman Dawood School of Business as well as themselves. Their conduct must be representative of the values and norms of the Suleman Dawood School of Business. Students are expected to adhere to normal working hours and be extremely attentive towards office timings, organizational norms and the quality of output required by their host organizations.

At the end of the internship, students are required to submit a written report documenting the whole learning experience as thoroughly as possible. It gives them confidence that they have actually made the best of this opportunity and gives them a chance to reflect on their experiences in a more structured manner. Additional guidelines on the required content of the report are provided to students when they start their internships. Students who were unable to undertake the Mandatory ACF Internship till their junior year summer semester won't be able to graduate on time without the mandatory internship. Students opting for an ACF Internship during Summer Semester will not be eligible for enrollment in any course. In case of such an activity, the department reserves the right to drop the student from the course(s).

The report plays a significant role in determining the pass/fail grade for the internship and must be submitted within a week of the internship ending. The report should not exceed 3500 words. Once a student successfully enrolls in the internship, it is his/her responsibility to continuously check his/her LMS and submit reports on time. As per policy, if a student missed the deadline, he/she will not be given permission to submit it late.

The ACF internship incurs charges following the university policy and is billed on a per-credit-hour basis. The credit hours associated with the ACF internship will be recorded during the Summer Semester, concurrent with the period of internship pursuit.

Eligibility Criteria:

The eligibility criteria for the ACF internship are as follows:

1. The minimum eligible CGPA for the said internship is 2.0 or above upon the closure of an academic year (Sophomore/Junior/Senior year).
2. Must have passed the course CFR I (ACCT 220).

ACF Electives: 12 Credit hrs. [4 Courses]

ACF majors are required to take **four elective** courses (12 credit hours); these courses must be taken from either the accounting or finance stream or a combination thereof. Each elective course is of **3 credit hours**. It is upon the students to decide which electives they need to take, keeping in mind that **4 courses** in total are to be completed from either/both streams.

ACF – Table 7

ACCT/FINN 1	3
ACCT/FINN 2	3
ACCT/FINN 3	3
ACCT/FINN 4	3
Total	12

ACF – Table 8

FINANCE	
CODE	COURSE TITLE
FINN 222	Introduction to Mathematics of Finance
FINN 242	Islamic Capital Markets & Instruments
FINN 243	Fintech Revolution: Market Disruption and Emerging Opportunities
FINN 321	Econometrics
FINN 326	Financial Risk Management
FINN 327	Financial Econometrics I
FINN 341A	Financial Institutions & Markets
FINN 353	Investments
FINN 372	Actuarial Sciences and Insurance
FINN 373	Fundamentals of Actuarial Mathematics I
FINN 383	Capital Markets & Corporate Governance
FINN 402	Commercial Banking
FINN 403	Financial Modelling
FINN 411	International Finance
FINN 422	Quantitative Finance
FINN 441	Islamic Banking and Finance
FINN 453	Financial Derivatives
FINN 454	Portfolio Management
FINN 455	Fixed Income Securities
ACCOUNTING	
CODE	COURSE TITLE
ACCT 202	Theory & Concepts of Accounting – Islamic Perspective
ACCT 302	Accounting for Islamic Financial Institutions
ACCT 331	Strategic Management Accounting & Control Systems
ACCT 352	Advanced Auditing
ACCT 362	Fraud Examination and Forensic Accounting
ACCT 411	Applied Financial Analysis
ACCT 482	Governance, Risk & Compliance

The addition of the courses in the ACF Electives list will be applicable with a retrospective impact, starting from the class of 2025

University Free Electives: 29 Credit hrs. [10 Courses]

The University free electives are to be taken from any area of specialization including ACCT, ENGL, ENV FINN, GSL, MGMT, MKTG, ORSC, ECON, MATH, HSS, LAW, BIO, PHY, CS, SCI, SSE, SWR, EDU, etc.

ACF – Table 9

UFE 1	3
UFE 2	3
UFE 3	3
UFE 4	3
UFE 5	3
UFE 6	3
UFE 7	3
UFE 8	3
UFE 9	3
UFE 10	3
Total	30

ACF Programme Duration

The normal duration of the BSc ACF programme is four years. A student can, however, remain enrolled in the programme for a maximum of six consecutive calendar years from the date of admission to LUMS as a fresh candidate.

IMPORTANT: Please note that due to the highly structured nature of the Accounting & Finance major, students are required to take the courses in the assigned sequence as mentioned in the Sample Four Year Plan.

The ACF Programme

Graduation Requirement		130-132 Credit Hours
University Core		8 Credit Hours (3 Courses)
University Distribution	In Group	14 Credit Hours (4 Courses)
	Out-Group	09 Credit Hours (3 Courses)
	Total	23 Credit Hours (7 Courses)
Major Requirement	Business Core	37 Credit Hours (12 Courses)
	Major Cores	22 Credit Hours (6 Courses, Internship)
	Major Electives	12 Credit Hours (4 Courses)
	Total	71 Credit Hours (22 Courses, Internship)
Free Electives*		29 Credit Hours (10 Courses) *

Sample Four Year Plan**

Codes	Course	Credits	Codes	Course	Credits
Freshmen Fall			Freshmen Spring		
<u>SS 100</u>	<u>Writing & Communication</u>	<u>4</u>	<u>SS 101</u>	<u>Islamic Studies</u>	<u>2</u>
MATH 101	Calculus I [Out-group]	3	<u>SS 102</u>	<u>Pakistan Studies</u>	<u>2</u>
MECO 111	Principles of Microeconomics [In-group]	3	MECO 121	Principles of Macroeconomics [In-group]	3
<u>ACCT 100</u>	<u>Principles of Financial Accounting</u>	<u>3</u>	<u>DISC 112</u>	<u>Computer & Problem Solving</u>	<u>4</u>
<u>MGMT 142</u>	<u>Principles of Management</u>	<u>3</u>	<u>FINN 100</u>	<u>Principles of Finance</u>	<u>3</u>
				University Free Elective 1	3
Total		16	Total		17
Sophomore Fall			Sophomore Spring		
DISC 203	Probability & Statistics [Out-group]	3	MGMT 252	Logic & Critical Thinking [Out-group]	3
<u>ACCT 130</u>	<u>Principles of Management Accounting</u>	<u>3</u>	<u>ACCT 250</u>	<u>Auditing</u>	<u>3</u>
<u>ACCT 220</u>	<u>Corporate Financial Reporting I</u>	<u>3</u>	<u>ACCT 320</u>	<u>Corporate Financial Reporting II</u>	<u>3</u>
<u>FINN 200</u>	<u>Intermediate Finance</u>	<u>3</u>	<u>DISC 212</u>	<u>Introduction to Management Science</u>	<u>3</u>
<u>MGMT 212</u>	<u>Business Communication</u>	<u>3</u>		University Free Elective 3	3
	University Free Elective 2	3		University Free Electives 4	3
Total		18	Total		18
Sophomore Summer					
<u>ACF 494</u>	<u>ACF Internship</u>	<u>4</u>			
Junior Fall			Junior Spring		
<u>MKTG 201</u>	<u>Principles of Marketing</u>	<u>3</u>		ECON/LAW/MGS [In-group]	4
<u>ORSC 201</u>	<u>Organizational Behaviour</u>	<u>3</u>		ECON/LAW/MGS [In-group]	4
	<u>ACF Major Elective 1-ACCT/FINN</u>	<u>3</u>	<u>FINN 400</u>	<u>Applied Corporate Finance</u>	<u>3</u>
	University Free Elective 5	3		<u>ACF Major Elective 2-ACCT/FINN</u>	<u>3</u>
	University Free Elective 6	3		<u>ACF Major Elective 3-ACCT/FINN</u>	<u>3</u>
Total		15	Total		17
Senior Fall			Senior Spring		
<u>MGMT 260</u>	<u>Business Law</u>	<u>3</u>	<u>MGMT 242</u>	<u>Business Ethics & CSR</u>	<u>3</u>
<u>MGMT 400</u>	<u>Strategic Business Management</u>	<u>3</u>		University Free Elective 8	3
<u>ACCT 370</u>	<u>Applied Taxation</u>	<u>3</u>		University Free Elective 9	3
	<u>ACF Major Elective 4-ACCT/FINN</u>	<u>3</u>		University Free Elective 10	3
	University Free Elective 7	3			
Total		15	Total		12

*The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4

**The sample plan is a suggested roadmap for timely completion of ACF programme requirements. All courses except ACCT 250 & 320, DISC 112, and MECO 111 & 121 are usually offered on a recurring basis in an academic year (Fall and Spring), hence, students may take them any time as per availability during the recommended year.

<u>University Core</u>	University	<u>Business</u>	Major	Major	University Free
<u>Underline</u>	Distribution	<u>Core</u>	Core	<u>Elective</u>	Elective
	Regular	<u>Bold and Underline</u>	Bold	Bold & Italic	<i>Italic</i>

The Management Science (MGS) Programme

The four-year BSc (Honours) in Management Science programme (MGS) is designed to develop students with a strong foundation in decision methods and data analytical techniques in business management. Students will learn to apply these concepts and techniques in providing new insights and improving operations and managerial decision-making processes across various business functions. A strong technical foundation will allow students the opportunity to pursue graduate studies or a professional career involving the application of business and data analytical skills.

The Programme has the following key learning objectives:

- Develop students with strong problem solving and analytical skills.
- Develop students with a broad technical skill set and the ability to critically analyze problems and apply necessary tools to support the decision-making processes.
- Develop students with an understanding of the modern business environment so that they can appreciate the importance of business and data analytics across various business functions, such as marketing, operations, HR, finance and accounting.
- Develop students' intellectual capacity to engage in critical thinking, problem-solving and reasoning, enabling them to deal with complex business issues by integrating theory with practice.
- Develop an understanding of legal, social, political, economic, and technological environments.
- Provide students with opportunities to hone personal and interpersonal skills including effective communication to enable them to develop as independent, confident and reflective individuals who are capable of taking initiative, working in and leading teams.
- Develop students who can appreciate the importance of sustainable and ethical practices and their role as socially responsible individuals within the local as well as global community.

Programme Structure – Management Science (MGS)

MGS – Table 1

Management Science	Credit Hrs.	No. of Courses
Graduation Requirements	130-132	43
University Core	8	3
University Distribution	23	7
□ Out-Group Distribution	9	3
□ In-Group Distribution	14	4
MGS Major Requirements	71	23
Business Core	37	12
MGS Major Core	19	6
MGS Major Electives	15	5
University Free Electives	29	10

University Core: 8 Credit hrs. [3 Courses]

Kindly refer to Section 1: Undergraduate Programme Policies and Regulation

University Distribution: 23 Credit hrs. [7 Courses]**MGS – Table 2**

Group	In-Group	Out-Group
MGS	ECON, LAW, ACF* Courses	HSS, SSE Courses

**Any course with an ACCT or FINN prefix can be used to fulfill this requirement, except for those ACCT/ FINN courses that are part of the business core.*

Out-Group Distribution: 09 Credit hrs. [3 Courses]**MGS – Table 3**

Code	Course Title	Credits
MATH 101	Calculus I	3
MGMT 252	Logic & Critical Thinking	3
DISC 203	Probability & Statistics	3
	Total	09

Only the above-specified courses will be considered to satisfy the outgroup distribution bin requirements for this programme.

In-Group Distribution: 12-14 Credit hrs. [4 Courses]**MGS – Table 4**

Code	Course Title	Credits
MECO 111	Principles of Microeconomics	3
MECO 121	Principles of Macroeconomics	3
ECON/LAW	ECON/LAW/ACF* Course	$\frac{3}{4}$
ECON/LAW	ECON/LAW/ACF* Course	$\frac{3}{4}$
	Total	12-14

**Any course with an ACCT or FINN prefix can be used to fulfill this requirement, except for those ACCT/ FINN courses that are part of the business core.*

Business Core: 37 Credit hrs. [12 Courses]**MGS – Table 5**

Code	Course Title	Credits
ACCT 100	Principles of Financial Accounting	3
ACCT 130	Principles of Management Accounting	3
DISC 112	Computer & Problem Solving	4
DISC 212	Introduction to Management Science	3
FINN 100	Principles of Finance	3
MGMT 142	Principles of Management	3
MGMT 212	Business Communication	3
MGMT 242	Business Ethics & Corporate Social Responsibility	3
MGMT 260	Business Law	3
MGMT 400	Strategic Business Management	3

MKTG 201	Principles of Marketing	3
ORSC 201	Organizational Behaviour	3
Total		37

MGS Major Core: 16 Credit hrs. [6 Courses]

The MGS major core courses consist of **19 credit hours** as part of the requirements.

MGS – Table 6

Code	Course title	Credits
DISC 231	Operations Management	3
DISC 320	Qualitative & Quantitative Methods in Business	3
DISC 321	Decisions Analysis	4
DISC 322	Optimization Methods in Management Science	3
DISC 323	Decision Behaviour	3
DISC 420	Business Analytics	3
Total		19

MGS Elective Courses: 15 Credit hrs. [5 Courses]

MGS majors are required to take five electives (15 credit hours); as a mix of Finance, Accounting, Productions, Operations Management, Marketing, Human Resource Management etc.

The mix is such that students are required to take **“TWO COURSES”** from the Accounting, Finance, Economics, Organizational Sciences & Marketing Stream and **“THREE COURSES”** from the Operations Research/Information Technology & Mathematics Stream. It is upon the students to decide which electives they need to take; keeping in mind that **FIVE COURSES** are to be completed in total from the two bins. Students will have the option to complete their MGS major electives through any of the below-mentioned combinations:

- 1) Five MGS electives
- 2) Four MGS electives + Internship

Following is the list of courses across different functional areas that can be taken to complete the MGS major electives requirement.

MGS – Table 7

Students will also have the option to work on a Senior Year Project (SPROJ) and/or complete a Semester-Long Internship to fulfil the requirement for Management Science electives.

BIN 1	
ACCT/FINN/ECON/ORSC/MKTG	
Code	Accounting, Finance & Economics
ACCT 202	Theory and Concepts of Accounting - Islamic Perspective
ACCT 302	Accounting for Islamic Financial Institutions
ACCT 362	Fraud Examination and Forensic Accounting
ACCT 411	Applied Financial Analysis
ACCT 482	Governance, Risk and Compliance
FINN 222	Introduction to Mathematics of Finance
FINN 242	Islamic Capital Markets and Instruments

FINN 243	Fintech Revolution; Market Disruption & Emerging Opportunities
FINN 30X	Financial Modelling
FINN 341A	Financial Institutions & Markets
FINN 326	Financial Risk Management
FINN 327	Financial Econometrics I
FINN 321/ECON 330	Econometrics
FINN 353/ECON 363	Investments/Economics of Investment & Finance
FINN 372	Actuarial Sciences and Insurance
FINN 373	Fundamentals of Actuarial Mathematics I
FINN 325/ECON 334	Time Series Econometrics
ECON 368	Applied Time Series Finance
FINN 383	Capital Markets and Corporate Governance
FINN 402	Commercial Banking
FINN 403	Financial Modelling
FINN 411	International Finance
FINN 422/ECON 461	Quantitative Finance
FINN 441	Islamic Banking & Finance
FINN 453	Financial Derivatives
FINN 454	Portfolio Management
FINN 455	Fixed Income Securities
Code	Management, Marketing and Organizational Behaviour
DISC 331	Project Management
MGMT 283	Fundamentals of Hospitality Management
MGMT 321	International Business
MGMT 346	Sports Management
MGMT 349	E-Commerce
MGMT 373	Personal Effectiveness
MGMT 382	Social Entrepreneurship
MGMT 384	Entrepreneurship & Management in the Restaurant Industry
MGMT 385	Tourism Management
MGMT 387	Managing Diverse People and Organizations
MGMT 481	Entrepreneurship
MGS 493	General Management Internship
MKTG 222	Retail Management
MKTG 322	Sales Force Management
MKTG 323	Channel Management
MKTG 332	Consumer Behaviour
MKTG 392	Brand Management
MKTG 324	Integrated Marketing Communications
MKTG 302	New Media Technologies in Marketing
ORSC 341	Human Resource Management
BIN 2	
Operations Research/Information Technology/Mathematics	
Code	Operations Research
DISC 324	Simulation Modelling and Analysis
DISC 325	Business Data Management
DISC 326	Data Science for Decision Making

DISC 327	Risk Management Process
DISC 333	Supply Chain & Logistics Management
DISC 335	Transportation & Logistics Management
DISC 336	Production Models
MGS 494	Management Science Internship
MKTG 343	Marketing Models
MKTG 344	Data Driven Marketing
MKTG 345	Data Analytics for New Product Development
ECON 233	Introduction to Game Theory
ECON 262	Mathematical Applications in Economics
ECON 435/MATH 433	Advanced Game Theory
Code	Information Technology
Programming	
CS 200	Introduction to Programming
CS 201	Programming in X
CS 300	Advanced Programming
Algorithms	
CS 210	Discrete Mathematics
CS 310	Algorithms
CS 510	Design and Analysis of Algorithms
CS 511	Advanced Algorithms
Databases	
CS 202	Data Structures
CS 340	Databases
CS 360	Software Engineering
CS 432	Introduction to Data Mining
CS 536	Data Mining
Mathematics	
MATH 343	Optimization Techniques
MATH 344	Numerical Analysis
MATH 432	Stochastic Processes
MATH 439	Applied Probability
MATH 442	Mathematics for Finance
MATH 447	Financial Engineering
MATH 462	Dynamic Systems

The addition of the courses in the MGS Electives list will be applicable with a retrospective impact, starting from the class of 2025.

Internship is a good way of getting practical and hands-on experience and is **OPTIONAL**. Students will get three credits for the Internship and the functional area of the Job will determine the bin where it would suffice (either in the ACCT/FINN/General Management or Operations Research stream). Students are required to get prior approval from the MGS Internship Coordinator before taking up the internship.

MGS – Table 8

MGS Major Elective 1	3
MGS Major Elective 2	3
MGS Major Elective 3	3
MGS Major Elective 4	3
MGS Major Elective 5	3
Total	15

University Free Electives: 29 Credit hrs. [10 Courses]

The free electives are to be taken from any area of specialization including ACCT, ENGL, ENV, FINN, GSL MGMT, MKTG, ORSC, ECON, MATH, HSS, LAW, BIO, PHY, CS, SCI, SWR, EDU etc.

MGS – Table 9

UFE 1	3
UFE 2	3
UFE 3	3
UFE 4	3
UFE 5	3
UFE 6	3
UFE 7	3
UFE 8	3
UFE 9	3
UFE 10	3
Total	30

MGS Programme Duration

The normal duration of the BSc MGS programme is four years. A student can, however, remain enrolled in the programme for a maximum of six consecutive calendar years from the date of admission to LUMS as a fresh candidate.

IMPORTANT: Please note that due to the highly structured nature of the Management Science major, students are required to take the courses in the assigned sequence as mentioned on the next page in the Sample Four Year Plan.

The Management Science (MGS) Programme

Graduation Requirement		130-132 Credit Hours
University Core		8 Credit Hours (3 Courses)
University Distribution	In Group	14 Credit Hours (4 Courses)
	Out-Group	09 Credit Hours (3 Courses)
	Total	23 Credit Hours (7 Courses)
Major Requirement	Business Core	37 Credit Hours (12 Courses)
	Major Cores	19 Credit Hours (6 Courses)
	Major Electives	15 Credit Hours (5 Courses)
	Total	71 Credit Hours (23 Courses)
Free Electives*		29 Credit Hours (10 Courses) *

Sample Four Year Plan**

Codes	Course	Credits	Codes	Course	Credits
Freshmen Fall			Freshmen Spring		
<u>SS 100</u>	<u>Writing & Communication</u>	<u>4</u>	<u>SS 101</u>	<u>Islamic Studies</u>	<u>2</u>
MATH 101	Calculus I [Out-group]	3	<u>SS 102</u>	<u>Pakistan Studies</u>	<u>2</u>
MECO 111	Principles of Microeconomics [In-group]	3	MECO 121	Principles of Macroeconomics [In-group]	3
<u>ACCT 100</u>	<u>Principles of Financial Accounting</u>	<u>3</u>	<u>DISC 112</u>	<u>Computer & Problem Solving</u>	<u>4</u>
<u>MGMT 142</u>	<u>Principles of Management</u>	<u>3</u>	<u>FINN 100</u>	<u>Principles of Finance</u>	<u>3</u>
			University Free Elective 1		3
Total		16	Total		17
Sophomore Fall			Sophomore Spring		
DISC 203	Probability & Statistics [Out-group]	3	MGMT 252	Logic & Critical Thinking [Out-group]	3
<u>ACCT 130</u>	<u>Principles of Management Accounting</u>	<u>3</u>	<u>DISC 231</u>	<u>Operations Management</u>	<u>3</u>
<u>DISC 212</u>	<u>Introduction to Management Science</u>	<u>3</u>	<u>MGMT 212</u>	<u>Business Communication</u>	<u>3</u>
<u>MKTG 201</u>	<u>Principles of Marketing</u>	<u>3</u>	University Free Elective 2		3
<u>ORSC 201</u>	<u>Organizational Behaviour</u>	<u>3</u>	University Free Elective 3		3
			University Free Electives 4		3
Total		15	Total		18
Junior Fall			Junior Spring		
	ECON/LAW Elective [In-group]	4		ECON/LAW Elective [In-group]	4
<u>DISC 320</u>	<u>Qual. & Quant. Methods in Business</u>	<u>3</u>	<u>DISC 323</u>	<u>Decision Behaviour</u>	<u>3</u>
<u>DISC 321</u>	<u>Decision Analysis</u>	<u>4</u>	<u>DISC 322</u>	<u>Optimization Methods in Mgmt. Science</u>	<u>3</u>
	University Free Elective 5	3	<u>MGS Major Elective 1</u>		<u>3</u>
	University Free Elective 6	3	University Free Elective 7		3
Total		17	Total		16
Senior Fall			Senior Spring		
<u>MGMT 260</u>	<u>Business Law</u>	<u>3</u>	<u>MGMT 242</u>	<u>Business Ethics & CSR</u>	<u>3</u>
<u>MGMT 400</u>	<u>Strategic Business Management</u>	<u>3</u>	<u>MGS Major Elective 3</u>		<u>3</u>
<u>DISC 420</u>	<u>Business Analytics</u>	<u>3</u>	<u>MGS Major Elective 4</u>		<u>3</u>
	<u>MGS Major Elective 2</u>	<u>3</u>	<u>MGS Major Elective 5</u>		<u>3</u>
	University Free Elective 8	3	University Free Elective 10		3
	University Free Elective 9	3			
Total		18	Total		15

*The number of courses taken towards these requirements will vary according to the course credit hours which can be of 3 or 4

**The sample plan is a suggested roadmap for timely completion of MGS programme requirements. All courses except DISC 112, and MECO 111 & 121 are usually offered on a recurring basis in an academic year (Fall and Spring), hence, students may take them any time as per availability during the recommended year.

<u>University Core</u>	University	<u>Business Core</u>	Major	Major	University Free
<u>Underline</u>	Distribution	<u>Bold and</u>	Core	<u>Elective</u>	Elective
	Regular	<u>Underline</u>	Bold	<u>Bold & Italic</u>	Italic

MGS 493/494 - Internship: 3 Credit hrs. [Elective]

Given below are the guidelines that drive the internship programme for the Management Science (MGS) major at Suleman Dawood School of Business (SDSB). Internship is recommended as an important practical experience, allowing students the opportunity to synthesize their in-class academic learning with real world organizational practice. As an added advantage, the summer internship will give MGS students the advantage of the job market with some work experience related to their major under their belts.

The MGS internship is billable and is charged on a per credit hrs basis as per the university policy.

Background Considerations

1. Compensation (credits and payment)

The student compensation for the MGS internship (credit hour terms) be fixed at **3 credit hours** (equivalent to one undergraduate course, and thereby requiring an equivalent amount of effort). Monetary payments by organizations are left at their discretion.

2. Internship Objectives

- Apply business concepts and decision-making tools to real-world scenarios/problems
- Increase proficiency in a specific business: such as human resources management, operations management, marketing, accounting, economics, finance, etc.
- Develop and improve business skills in communication, technology and teamwork.
- Observe (and possibly participate) in business operations and decision-making.
- Meet professional role models and potential mentors who can provide guidance, feedback, and support.
- Expand network of professional relationships and contacts.
- Develop a solid work ethic and professional conduct, as well as a commitment to ethical conduct and social responsibility.

3. Target Organizations

Given the unique skillset acquired by MGS scholars by their Junior year, placements are made at organizations where students are able to apply some of the tools they have learnt during the course of their studies. The Career Services Office (CSO) will match identified host organizations to student profiles and their work preferences. However, students are also encouraged to bring in their own contacts in prospective organizations for this purpose.

4. Time of Internship and Credit

The internship will take place during the student's Junior or Senior year during the Summer break. The internship is 6-8 weeks long, and **3 credits** are awarded for its completion. As a rule of thumb, **at least six weeks** of continuous work at the host organization's premises (or recommended site) is given a full credit. Partial credit will not be given. Students are expected to adhere to normal working hours and be extremely attentive towards office timings, organizational norms and the quality of output required by their host organizations. The pursuit of an internship is a serious responsibility. During their interaction with the host organizations, students represent the Suleman Dawood School of Business as well as themselves. Their conduct must be representative of the values and norms of Suleman Dawood School of Business. Students opting for an MGS Internship during Summer Semester will not be eligible for enrollment in any course. In case of such activity, the department reserves the right to drop the student from the course/s.

5. Assurance of Continued Learning during the Internship

To ensure that an internship continues as a learning situation and that the intended relationship between intern and host organization continues during the internship tenure,

- (i) The student is encouraged to seek the faculty sponsor's assistance if any problems of communication arise or if he/ she finds that learning opportunities are being reduced or restricted.
- (ii) Several reports are required to be submitted by the student to the CSO at the start of the internship, during the internship and after its completion. Details are provided by the Programme Coordination Office (PCO) - SDSB. Internships will not be given credit without the submission of these deliverables.
- (iii) The faculty sponsor/ CSO may make site visits during the internship, and feedback is obtained by work supervisors periodically.

Reports Required:

1. Internship Proposal/Design Statement

Students are expected to be partially responsible for the design of the internship undertaking. It is recommended that students prepare a short 'internship design statement' which should be prepared in tandem with their supervisor at the host organization. This is submitted alongside the one-week report.

The proposal should contain the following elements:

- Career goal of student
- Learning objectives for the internship (the "Internship Objectives" in I-2)
- Description of place of internship (and on-site work, if any) and functional area within which placement has been done.
- Name, designation and contact of supervisor.
- Expected work to be completed during the internship.
- The student's preparation for the internship (such as related coursework covering the industry, if any)
- Additional comments, if any.

2. Approval Procedures: Internship output and evaluation for credits

At the end of the internship, students are required to write an 8-10-page report (1.5 spaced, 11 font size, printed on both sides, with annexures), assessing one or more aspect of the organization that they were exposed to and their detailed output therein. The report must clearly state the nature of work undertaken, lessons learnt, and the output given to the host organization. This report must be routed to the faculty supervisor through the CSO Office within a week of the internship ending. Once a student successfully enrolls in the internship, it is his/her responsibility to continuously check his/her LMS and submit reports on time. As per policy, if a student missed the deadline, he/she will not be given permission to submit it late.

Students must also submit a concise one-page summary of their experiences within the organization. This is a separate document from the internship report. This would include a personal evaluation of whether they felt this was a worthwhile experience, and how it could be improved. This is routed to the faculty supervisor through the CSO Office as well.

The host organization will also be requested to fill an evaluation form giving feedback on student's behavior, the quality of the output and professionalism and whether the internship met their own expectations.

Partial credit for incomplete internships will not be given. Credits are given once the faculty supervisor is satisfied with the internship visit/call, host organization's evaluation of the student and the final internship report.

General Rules and Policies

Senior Year Project (SPROJ) / Independent Study (IS) Policy

Please refer to Policy No. 8: Directed Course Work (Courses Requiring Exceptional Method of Registration) under Section 1: 'Undergraduate Programme Policies and Regulations' for university-wide policies applicable to Directed Course Work.

In addition to the information given in the policy, further details about logistics of SPROJ/IS/DCW are given below:

Senior Projects and Independent Studies are intended to provide students with an opportunity to integrate and apply what they have learned from the courses in their major programmes. It should demonstrate an ability to formulate an original research question/problem along with the appropriate research methods to investigate the question posed. The study should report findings and explain their implications and ramifications in detail.

The form of the Senior Project /Independent Study varies with the substance of the student's major programme and the student's specific learning goals.

Some forms which a Senior Project/ Independent Study may take are as follows:

- An original Research Project using a method such as surveys or interviews.
- An original research question about an organization's management or financial reporting practices.
- A critical review of the scholarly literature on some aspect of the student's major field.
- An analysis of a company's financial or management process.
- A paper based on an internship with a business or a non-profit organization, detailing or critically analyzing some management issues.

These examples are mere suggestions for guidance purpose only and are not meant to be exhaustive in any way. Students are encouraged to be creative and should come up with a project that will contribute to the existing body of knowledge.

The Senior Project / Independent Study must be completed in the student's last year / Senior year.

The process of planning a Senior Project/ Independent Study should begin by the start of the semester prior to the semester in which the student is registering for the project. However, it is useful to start thinking about it even earlier as prior to the registering of courses, the students are required to submit a DCW online application in Zambeel; so, completion of below listed steps 1-5 one semester before will assist students in smooth enrollment of not only DCW but also that semester's requisite courses. To enhance learning outcomes students should work closely with faculty supervisors in the process of planning and carrying out the project as detailed below.

- 1. Select a topic and the potential supervisor** at least one semester before students plan to begin working on the project. Selecting a topic will involve three elements: choosing the subject students will be working on, the approach to the subject, and the form the project will take. The process of selecting a

topic should involve consultation with the proposed supervisor. Full time, Visiting & Adjunct faculty members can supervise Senior Projects and Independent Studies at SDSB.

2. Write a proposal before the semester in which students plan to complete the project. The project proposal explains what the project is all about, how students plan to carry it out, and what students hope to learn by doing it. The proposal should specify the following:

- The questions students want to answer or problems they want to address
- How students plan to address them, i.e., the form their project will take
- The methods that students plan to use, e.g., statistical analysis, archival research, textual analysis, qualitative research, etc.
- Materials students intend to use (a bibliography will often answer this question)
- The courses & experiences that have prepared students to undertake this project
- The area that students think this proposal should be counted towards.
- The number of credit hours' students are hoping to gain from this Senior Project / Independent Study
- A rough timeline for the completion of the project
- The scope of work to be undertaken by each member of the group

3. Work with the supervisor to:

- Make any revisions needed to clarify the project proposal, and
- Identify an area of ACF OR MGS where the project should be ideally counted towards.

4. BIN Allocation:

Both the ACF and MGS SPROJs are hereby incorporated into the UFE BIN. Consequently, the completion of ACF and MGS Elective BINs will no longer include the aforementioned SPROJs.

This policy is to be applied retrospectively, superseding all SPROJ-related policies delineated in preceding handbooks

5. Approval from the department: The department will review the proposal and if needed call a meeting to discuss the proposal. Based on the results of this meeting, the department will finalize the following:

- i) The number of credit hours (3 to 4) for Senior Project spanned over a semester and 6 for a year (1 to 2) for Independent Studies.
- ii) Any suggestions on scope of the work.

6. Registration for Directed Course Work on Zambeel: The RO announces registration of Direct Course Work before the commencement of enrollment phase I & II. The students will register for the Directed Course Work through the online module from their Zambeel self-service. The DCW requests will be sent to the Undergraduate Programme Coordination Office and the respective supervising faculty. After their approval, the requests will be forwarded to the RO for further processing.

Approval of the Zambeel request is subject to meeting the following criteria:

	Senior Project	DRP	Independent Study
Number of Students	2 to 6	1 to 5	1
Number of Credit Hours	3,4 or 6	1 or 2	1 or 2
Supervisor's Approval	Yes	Yes	Yes

Department's Approval	Yes	Yes	Yes
RO's Approval	Yes	Yes	Yes
Conduction Year	Senior Only	Juniors or Seniors	Senior only
Grading	A+ to F	Pass/Fail	Pass/Fail

Note:

- i) The total limit for DCW credit hours is 12 including ACF/MGS internship credits.
- ii) Senior Projects can also be counted towards university free electives.
- iii) A Directed Research Project/ Independent Study is counted towards university free electives.

7. Grading Methods: It is expected that the Directed Course Work will require significant work from the students to justify the credit units assigned to the project. In general, same grades are given to the entire group. However, at the discretion of the instructor, different grades may be awarded to group members based on objective evidence of differential performance. The instructor may use presentation, viva or other such means along with the written report to assess the students' performance.

8. DCW Codes:

Course Code	Description	Credit Hours	Academic Level
ACF 491	Senior Project in Accounting and Finance	3 or 4	Seniors
ACF 491 A	Senior Project in Accounting and Finance I (Yearlong SPROJ part A)	3	Seniors
ACF 491 B	Senior Project in Accounting and Finance II (Yearlong SPROJ part B)	3	Seniors
MGS 491	Senior Project in Management Science	3 or 4	Seniors
MGS 491 A	Senior Project in Management Science I (Yearlong SPROJ part A)	3	Seniors
MGS 491 B	Senior Project in Management Science II (Yearlong SPROJ part B)	3	Seniors
ACF 497A	Directed Research Project	1	Juniors or Seniors
ACF 497B	Directed Research Project	2	Juniors or Seniors
MGS 497A	Directed Research Project	1	Juniors or Seniors
MGS 497B	Directed Research Project	2	Juniors or Seniors
ACF 400A	Independent Study	1	Seniors
ACF 400B	Independent Study	2	Seniors
MGS 400A	Independent Study	1	Seniors
MGS 400B	Independent Study	2	Seniors

Enrollment Status Requirement and Course Load

All ACF/MGS First year students are required to take at least **12-16 credit hours** in a regular semester to maintain full time status. However, in extreme cases i.e., physical/ psychological disability etc., please refer to Section 1: Undergraduate Programme Policies and Regulation (Policy 7).

Major Declaration/Specialization

The SDSB undergraduate batch of 2025 will have the option of declaring their major (either ACF or MGS) at the end of Spring semester of the First year. In case of capacity constraints, some students may not get the major of their preferred choice. The criteria for major allocation are based on the CGPA of the students at the end of Spring semester of the First year.

The students do have the option to revisit their decision of major choice upon the closure of the Sophomore year and are required to apply through the Major Change Form to process the change.

Interschool Transfer Policy - SDSB

Interschool transfers to Suleman Dawood School of Business (SDSB) may be applicable in case of the following two major scenarios:

A. CGPA greater than or equal to 3.5 (CGPA $\geq$ 3.6) *

Students with a CGPA greater than or equal to 3.6 at the end of First/Sophomore year(s) are eligible for a direct transfer to SDSB Undergraduate Programmes (ACF/MGS), based on their given major preference.

B. CGPA greater than or equal to 3.0 but less than 3.6 (CGPA $\geq$ 3.0 and $<$ 3.6) **

Students with a CGPA greater than or equal to 3.0 but less than 3.6 can be considered for a transfer to SDSB Undergraduate Programmes provided the applicant meets the following two conditions:

- B.1. Student has taken at least three ACF/MGS courses by the end of First/Sophomore year(s).
- B.2. Student meets the criterion mentioned in (B.1) and CGPA weightage is $\geq$ 3.3. **CGPA weightage¹** for such cases is calculated by giving 50% weightage to CGPA of all ACF/MGS courses and 50% weightage to CGPA of courses taken at other schools.

If the afore-mentioned criteria (B.1) and (B.2) are fulfilled, then the student with a CGPA greater than or equal to 3.0 but less than 3.6 can be considered for a transfer based on the recommendation of SDSB Undergraduate Programme Committee and approval of the Associate Dean (Academic Programmes).

Notes:

- i) *If a student has taken less than three ACF/MGS courses by the end of the First/Sophomore year(s), then the policy stated in clause (A) shall be applicable.*
- ii) *Students having a CGPA of less than 3.0 at the end of the First/Sophomore year(s) are not eligible to apply for a transfer to SDSB Undergraduate programmes.*
- iii) *The policy guidelines mentioned above only serve as a screening criterion for the potential pool of applicants; and do not provide any guarantee for the interschool transfers to SDSB, since transfers are contingent upon the availability of seats and approval of the SDSB undergraduate committee.*

¹Formula for calculation of CGPA Weightage

[CGPA of Non ACF/MGS Courses x 0.5] + [CGPA of at least three ACF/MGS Courses x 0.5]

Attendance Policy - SDSB

- 1. Attendance Requirements:** Students are expected to attend all classes scheduled for each course. However, up to four (4) absences can be accumulated in 3 or 4 credit hrs without a penalty. This requirement encompasses physical attendance in on-campus or online/hybrid classes and active participation. Additionally, students must read/respond to official notifications/emails sent by the school's administrative offices, attend mandatory feedback sessions, and respond to invitations for focus groups, speaker sessions, and other scheduled activities.
- 2. Consequences for Non-Compliance:** Non-compliance with course attendance requirements will result in academic penalties, including grade deductions by one percent (1%) after the allowed four (4) absences. Once a student has eight (8) absences in a course, he/she will be given a D grade.

In case of surpassing the allowed four (4) absences, the student will be notified either by the course faculty administrative assistant, or teaching assistant assigned to the respective course.

Failure to comply with official notifications/emails, not attending mandatory feedback sessions, and not responding to invitations for focus groups, speaker sessions, and other scheduled activities will result in the blocking of Zambeel accounts and the requirement to submit a written explanation to the UG PCO.

3. **Accommodating Special Circumstances:** Students facing specific challenges that may impact their attendance can request accommodation through the Office of Students Affairs and the Office of Accessibility & Inclusion following their required documentation process and will be dealt with on a case-to-case basis. The final decision-making authority rests with the school, based on all the documentary evidence and recommendations of OSA/AAA.
4. **Appeals Process:** Students will only have the right to appeal attendance-related decisions under exceptional circumstances and must provide the requisite documentary evidence. The appeals process involves approved OSA/OAI petitions and does not exceed the maximum allowance limit of eight (8) absences in a course.
5. **Communication and Awareness:** The SDSB UG Attendance Policy is to be communicated to students and faculty via official channels, including the university website, student handbook, and course syllabi. Faculty members are responsible for ensuring students are aware of the policy at the start of each academic semester. Every student will be responsible for keeping track of his/her attendance at any given point of time in the semester.

Public Management Minor

While the government sector is the largest job provider in Pakistan, there is a considerable lack of quality public management education in the country. Offering a Minor in Public Management gives SDSB a chance to bridge this educational gap and, at the same time, advance its mission to impact the practice of public management.

Purpose:

The minor will complement existing majors at LUMS, by providing education and training in managerial, analytical and leadership skills needed, to assume professional roles in public and development sector organizations.

Course and Credit Hours Distribution:

The Minor will consist of 18 credits distributed over 6 courses. All University-wide policies pertaining to Minor programmes apply to the Public Management Minor. In addition to those, the following policies will apply to the Minor in Public Management:

Minor Core Courses (Total 6 Credit Hours)		
Code	Course title	Credits
MGMT 243	Public Administration	3
MGMT 261	Introduction to Policy Analysis	3

Minor Elective Courses		
The remaining 12 credits for the Minor may be completed by taking a combination of the following elective courses, in accordance with the University policies pertaining to course levels that make up a Minor:		
Code	Course title	Credits
MGMT 244	Reforming the Public Sector	3
MGMT 246	ICT in Government	3
MGMT 247	Public Financial Management	3
MGMT 262	Governance System of Pakistan	3
MGMT 263	Contemporary Social Policy Issues in Pakistan	3
MGMT 342	Non-profit and Voluntary Organizations	3
MGMT 345	Entrepreneurship and Innovation in Education Sector	3
MGMT 347	Organizing and Organizations for Social Change	3
MGMT 348	Internet Governance and Technology Policy	3
EDU 352	Education Policy Analysis	3
MGMT 362	Rethinking Policy: Critical Perspectives on Pakistan's Agricultural Development	3
MGMT 364	Women and Public Policy in Pakistan	3
MGMT 365	Urban Planning and Development	3
MGMT 366/ EDU 362	Monitoring and Evaluation in Public Policy	3
MGMT 386	Business, Government, and Society	3
MGMT 462	Modern Thought in Social Policy	3
MGMT 463	Gender & Global Finance	3

Computational Finance Minor

The minor in Computational Finance will provide opportunity to students to prepare for higher education in Financial Engineering, Mathematical or Computational finance. Essentially, the students will have the baseline theoretical and empirical knowledge along with hands on expertise in computation, which will serve as entry requirements to specialized master programmes.

Purpose:

The minor will provide students with theoretical understanding and practical skills to formulate, implement, and evaluate models used by the financial sector to structure transactions, manage risk, and construct investment strategies.

Programme Structure:

Skill set Orientation: Finance + Computation + Mathematics.

Objective: [Theory (Advanced), Practice (Intermediate)]

Total Required: 18-24 Credit Hours

Course and Credit Hours Distribution:

Minor Core Courses (Total 7 Credit Hours)		
Code	Course title	Credits
MATH 449/FINN 422	Quantitative Finance (with MATLAB)	4
CS 100	Computational Problem Solving	3

Minor Elective Courses (Requirement: Total 4 courses with minimum 1 course from each of the following three skill sets)		
Financial Modelling (Finance)		
Code	Course title	Credits
FINN 453	Financial Derivatives	3
FINN 454	Portfolio Management	3
FINN 455	Fixed Income Securities	3
Data Analysis Tools (Computation)		
CS 432	Introduction to Data Mining	3
ECON 334/FINN 325	Time Series Econometrics	3
FINN 327	Financial Econometrics I	3
FINN 372	Actuarial Sciences and Insurance	3
MATH 5313/MATH 4310	Scientific Computation and Simulation with Python	3
	Numerical Analysis & Simulations (SSE) <i>not offered yet</i>	
Mathematics		
FINN 222	Introduction to Mathematics of Finance (with MATLAB)	3
FINN 373	Fundamentals of Actuarial Mathematics I	3
MATH 437/MATH 535	Applied Stochastic Processes/Advanced Applied Stochastic Process	3
MATH 4314 /MATH 539	Stochastic Processes I / Advanced Stochastic Processes-1	3
	Stochastic Processes II (SSE) <i>not offered yet</i>	

Note: The additions of the courses in both minors will be applicable with a retrospective impact, starting from the class of 2025.

Skill Set Contribution Towards the Objective:		
Financial Modelling	Data Analysis Tools	Mathematics
Theory + Practice (Advanced)	Practice (Advanced)	Theory (Advanced)

Office of Undergraduate Student Advising SDSB (OUSA - SDSB)

The Office of Undergraduate Student Advising SDSB (OUSA – SDSB), aims at providing proactive, prescriptive, and developmental advising to the undergraduate students of SDSB from the start of their first year till the time they graduate. The office engages students in a developmental process that helps them clarify and implement individual educational plans consistent with their skills, interests, and values, and navigate them in achieving their personal, professional, and educational goals. Our goal is to maximize student retention, facilitate timely graduation and promote holistic student development. Advising nodes available at SDSB are PALs for first years, Faculty advisors for sophomores, while Staff academic advisors and Specialized faculty advisors are available for all years. These nodes are responsible for supporting all students either through proactive advising outreach or on student request. Below are the details regarding student year-wise available advisement support services. All students are encouraged to utilize all the available advising support and resources. Some meetings have been made mandatory for students because those meeting are critical for their academic success at LUMS.

Academic Advisement for all Years:

All students at SDSB are provided with the following advisement and support throughout their academic journey at LUMS:

- Advising Helpdesk Support:** The Advising Helpdesk is available for all the undergraduate students of SDSB. Students can send their request to the Advising Helpdesk regarding any academic related matter such as semester by semester planning, enrollment related guidance, graduation tracking, major selection/change by or any other academic decision by emailing at undergradadvising.sdsb@lums.edu.pk Students will receive a reply from the relevant advisor with timely and appropriate advice or a meeting appointment.
- Assigned Advisors:** All Students are required to meet their assigned staff academic advisor at least one month prior to the enrollment for the next semester to discuss semester planning and course selection. Graduating seniors are required to meet their advisor for validation of degree requirements. The details of assigned advisors are available on Zambeel student services center under the section 'Programme Advisor'. Students can request for an appointment with their academic advisor by sending an email to the advising helpdesk at undergradadvising.sdsb@lums.edu.pk. Students will receive a reply from the relevant advisor with timely and appropriate advice or a meeting appointment.
- Faculty Specialist Referrals:** Specialized advising support is available for all students on request basis. Students can send in their request through helpdesk (email undergradadvising.sdsb@lums.edu.pk) related to specialized topics on both majors (ACF or MGS) and advising office will make sure to connect the student with the relevant faculty for specialized guidance. The specialized topics include but are not limited to career development and graduate school advising. The list of specialized topics is available on the advising website resources section (<http://sdsbadvising.lums.edu.pk>) and is also shared with students at the start of each semester through email.
- Workshops and Group Sessions:** Workshops and group sessions are organized for targeted years. The workshops are based on major and minor selection, internships and research options, career

development and post LUMS pathways, social integration, and various other topics. The details of the upcoming workshops / sessions are announced to the students through email.

- e. **SDSB Advising Website:** Advising website (<http://sdsbadvising.lums.edu.pk>) provides all the updated information regarding academic timeline, important advising deadlines, upcoming events, helpful advising resources, and FAQs. A range of resources are also available at <http://portal.lums.edu.pk/advising> (including handouts for major exploration, career planning, and more).

Academic Advisement for Specific Student Populations:

- a. **Advising Support for First Year:** Peer Ambassadors at LUMS for social support (PALss) are available for all first-year students. Our PALss are students from junior or senior year at SDSB and undergo a rigorous selection and training process. From orientation week till end of first year, PALss are readily available to provide first year students with holistic social support that can help them to transition into LUMS and feel welcomed. First year students are required to meet their assigned PALss on a mandatory basis (4 meetings per semester). Students can request for meeting appointments by emailing their assigned PALss. For general academic concerns students can also have a conversation within their PALss Online Support Group.
- b. **Advising Support for Sophomores:** Once sophomores at SDSB have declared their major, they are assigned a faculty advisor till the end of sophomore year. Sophomores are required to attend one mandatory group meeting in Fall, and two mandatory individual meetings in Fall and Spring semesters with their assigned faculty advisor. The sophomore faculty advising programme at SDSB has been established with a goal of helping each sophomore benefit from the expertise that only faculty can provide on specialized topics related to academia as well as professional career guidance which is vital at this stage as the students start navigating their major journey at LUMS.
- c. **Advising Support for Juniors and Seniors:**
Academic Advisors and Faculty Advisors: Advisement support is available for the remaining two years on a need basis. We have 2 layers of advising support available which includes Academic Advisors and Specialized Faculty Advisors. Students can always reach out to the Staff Academic Advisors with any query or concern related to academic decision making such as major change, planning for exchange semester, internship and research options, career development and post LUMS pathways such as graduate school applications, or any other concern related to graduation tracking by sending an email at undergradadvising.sdsb@lums.edu.pk. Students can also reach out to the academic advisors during the walk-in office hours to discuss their academic concerns and to update their performance.
Graduation Audit: All seniors must verify their degree requirements before the start of senior year with their academic advisor. This is important for them to ensure they have not missed any course required to graduate on time.
- d. **Advising Support for at Risk Students:** Students on warning (with a CGPA 2.50 – 2.00) and probation (with a CGPA below 2.00) are required to meet their academic advisor at least 2 to 4 times a semester. Other than that, late graduates, readmitted students, or students on semester off are also required to meet their academic advisor once before the start of their semester to ensure smooth graduation. Such students will receive mandatory meeting requests from their advisors and these students must meet their academic advisors on regular basis.
- e. **Advising for other Students who need Additional Support:** Students planning for exchange semester, intend to transfer outside SDSB, or those who transferred to SDSB from within or outside LUMS are also required to have a mandatory meeting with their academic advisor to discuss their academic plan in order to ensure timely graduation.

Pre-meeting self-reflection forms: For some meetings the school may require students to complete a reflection form with specific topics that are appropriate for that time in their academic career and programme in order to facilitate their meetings with advisors.

For Appointments and Student Queries: undergradadvising.sdsb@lums.edu.pk

Website: <https://sdsbadvising.lums.edu.pk>

Contact Resources:

<u>Dr. Muhammad Adeel Zaffar</u> Dean, SDSB adeel.zaffar@lums.edu.pk Contact # 0423-5608040	<u>Ms. Mahira Ilyas</u> Director, Undergraduate Programmes Mahira.ilyas@lums.edu.pk Contact # 0423-5608428
<u>Dr. Omair Haroon</u> Associate Dean for Academics (Undergraduate) omair.haroon@lums.edu.pk Contact # 0423-5608028	<u>Dr. Zehra Waheed</u> MGS Internship Coordinator zehra.waheed@lums.edu.pk Contact # 0423-5608426
<u>Ms. Ayesha Bhatti</u> ACF Internship Coordinator ayesha.bhatti@lums.edu.pk Contact # 0423- 5608087	<u>Mr. Muhammad Razi</u> Lead Coordinator, Undergraduate Programmes muhammad.razi@lums.edu.pk Contact # 0423-5608233
<u>Ms. Mubeen Fatima</u> Lead Academic Advisor - Office of Undergraduate Student Advising (OUSA) mubeen.fatima@lums.edu.pk Contact # 0423-5608000 Ext # 5017	<u>Mr. Bilal Hassan Alvi</u> Officer, Undergraduate Programmes bilal.hassan@lums.edu.pk Contact # 0423-5608000 Ext # 5014
<u>Ms. Neeshay Zahra Ahmad</u> Academic Advising Specialist - Office of Undergraduate Student Advising (OUSA) neeshay.ahmad@lums.edu.pk Contact # 0423-5608406	<u>Ms. Iqra Ijaz</u> Programme Coordinator – UG Academic Adv. Iqra.ijaz@lums.edu.pk Contact # 0423-5608484
<u>Ms. Zahra Amir</u> Academic Advising Specialist - Office of Undergraduate Student Advising (OUSA) zahra.amir@lums.edu.pk Contact # 0423-5605123	

MUSHTAQ AHMAD GURMANI SCHOOL OF HUMANITIES AND SOCIAL SCIENCES (MGSHSS)

The Mushtaq Ahmad Gurmani School of Humanities and Social Sciences is the leading humanities and social sciences programme in the country with an established reputation of producing graduates who have become leaders in understanding and shaping society. Over the decades MGSHSS has earned an international reputation in the field of humanities and social sciences. A community of world-class scholars, the vibrancy of the teaching, the quality of the research and an outstanding curriculum all combine to produce an undergraduate programme of the highest international standards.

At the School we will strive to have our students graduate with the capacity to explore widely and deeply, think creatively and critically, and express ideas clearly and effectively. By realizing their full intellectual and personal potential, students will contribute to the betterment of society in Pakistan and the wider region. MGSHSS aims to nurture individuals to be principled, intellectually engaged, and socially responsible members of society who aspire to change the world around them through inspirational leadership and transformative community participation.

MGSHSS comprises of two departments:

- Humanities and Social Sciences (HSS), and
- Economics (ECON)

The departments offer four-year undergraduate degree programmes in the following majors:

Departments	
Humanities and Social Sciences (HSS)	Economics (ECON)
Major	
• BSc (Hons) Anthropology/Sociology • BSc(Hons)Psychology • BSc (Hons) Political Science • BA (Hons) English • BA (Hons) History • BA (Hons) Comparative Literature and Creative Arts (CLCA)	• BSc (Hons) Economics • BSc (Hons) Economics and Mathematics (Joint Major) • BSc (Hons) Political Science and Economics (Joint Major) • Bsc (Hons) Economics, Data and Computer Science (Joint Major)

In addition to the majors, MGSHSS offers Minors in the following disciplines:

- Anthropology / Sociology
- Comparative Literature and Creative Arts (CLCA)
- Economics
- English
- Environmental Studies
- Gender and Sexuality Studies (GSS)
- History
- Philosophy
- Political Science
- Psychology
- Study of Religion

MGSHSS Four-Year Undergraduate Programmes

Important Information:

The four-year undergraduate degree programme is quite robust in nature. It may seem complicated at first, however, the following check points have been established for easy navigation.

- First year students are allowed to register for a total of 12.5 to 16.5 credit hours per semester. The total number of CHS allowed in subsequent years are 12 – 20.
- Students with no economics background may choose to enroll in Econ 100 in the first semester or enroll directly in ECON 111/121. However, ECON 100 will count as a free elective for all Economics, Political Science and Economics, the Economics and Math, and Economics, Data and Computer Science major
- MATH 100 is a pre-requisite for MATH101. Students with no math background must enroll in MATH 100 in first year and the course counts as a free elective.
- All incoming MGSHSS students are pre-registered in either SS 100 or the remedial SS 100A in the Fall semester of first year, based on their verbal scores in the entry test (ACT, SAT, or LCAT).
- Students placed in SS 100A will take SS 100 in the Spring semester.
- University core SS 100 is pre-registered in first year.
- Islamic Studies and Pakistan Studies are pre-registered in sophomore year.
- Majors Declaration takes place by the end of first year.
- MGSHSS students must complete all graduation requirements as given in the program structure of each major
 - University Cores
 - First Year Tutorial
 - University Distribution – Out-Groups
 - MGSHSS School Core Curriculum
 - Free Electives
 - Major Requirements
 - Major Cores
 - Major Electives
- MGSHSS students must complete at least 130 CHs as their graduation requirements given in the programme structure of each major.

MGSHSS School Core Curriculum

The Mushtaq Ahmad Gurmani School of Humanities and Social Sciences (MGSHSS) has a Core Curriculum for its undergraduate studies graduation requirement. The Curriculum aims to ensure that every student graduating from MGSHSS LUMS with a bachelor's degree possesses a broad foundation of knowledge and a diverse set of transferable skills. The interdisciplinary nature of the Core will help ensure that students emerge as reflective, empathetic, and historically informed individuals, with an understanding of both global and local current issues.

Based on the LUMS philosophy regarding undergraduate education, the school has created six Thematic Buckets, from which students are required to take at least one course each over the duration of their degree. At least one course from each of these four buckets—Arts and Humanities, Social and Behavioral Sciences, STEM, and Contemporary Debates—must be completed in the first two years. Students also must take one

course from each of the buckets labeled Academic Writing and Great Authors. If any bucket is left unfinished, the graduation of the students may be delayed.

Following are the buckets:

1 st Year & 2nd year	Arts & Humanities Social & Behavioral Sciences STEM Contemporary Debates
3 rd & 4 th Years	Great Authors Academic Writing

The school provides a list of Core Curriculum courses that allows students to identify their bucket requirements. The identification process is called “flagging” as the thematic buckets do not carry Credit Hours (CHs) which means it does not require additional coursework beyond 130 CHs.

Essential Check Points:

1. Buckets must be completed in their stipulated years.
2. ECON 100 is flagged as a Social and Behavioral Sciences course.
3. Math 100 - Pre-calculus is flagged as a STEM course.
4. A student needs to take a letter graded course to complete the buckets. Bucket courses cannot be converted to PASS/FAIL.
5. If more than one course counts towards a bucket, student can choose which one to flag.
6. One course can fulfill a core requirement as well as your major/minor one simultaneously. But it cannot fill two core buckets. Each bucket must have a different course.

SNAPSHOT OF FOUR-YEAR DEGREE PLAN WITH BUCKETS¹

FIRST YEAR		
	Fall (First Semester)	Spring (Second Semester)
First-year batch will be taking	• Writing and Communication • Social and Behavioral Sciences • Arts and Humanities • STEM • HSS 101	• Pending bucket (if any) • 2-3 Other courses • HSS 101
	Total Credits= 12.5-16.5	Total Credits= 12.5-16.5

¹ Please note that this is a sample snapshot. Students can customize the plan under the guidance of their STAFF Academic Advisors

SOPHOMORE YEAR		
	Fall (Third Semester)	Spring (Fourth Semester)
Half of the Sophomore batch will be taking	• Islamic Studies • Contemporary Debates • 2-3 other courses*	• Pakistan Studies • 3-4 other courses
Half of the Sophomore batch will be taking	• Pakistan Studies • Contemporary Debates • 2-3 other courses	• Islamic Studies • 2-3 other courses
	Total Credits= 12-20	Total Credits= 12-20

JUNIOR YEAR & SENIOR YEAR		
	Fall	Spring
Junior and Senior Year	• Great Authors and/or • Academic Writing • Major Cores • Major Electives • Free electives	• Great Authors and/or • Academic Writing • Major Cores • Major Electives • Free electives
	Total Credits= 12-20	Total Credits= 12-20

Department of Humanities and Social Sciences

The Humanities and Social Science (HSS) Department at LUMS provides students with a theoretical framework to examine and develop a better understanding of a complex and interdependent world. It aims to enhance a students' research, analytical, communication and critical thinking skills, so that they are well-suited to pursue a wide range of careers in teaching, public and mental health, counselling, social work, criminal justice, public policy, journalism, and the non-profit sector.

The Department of Humanities and Social Sciences offers the following majors:

- Anthropology/ Sociology
- Comparative Literature and Creative Arts (CLCA)
- English
- History
- Political Science
- Psychology

Programme Structure - Anthropology/Sociology

Graduation Requirements:

Kindly refer to both Tables 1 and Table 2 for the complete Anthropology/Sociology programme structure, totaling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

Anthropology/Sociology - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS, SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo.

Course	Code	Course Title	Credit Hours	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives ¹	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Free Elective 15	ANY	ANY	3 or 4	☐
Free Elective 16	ANY	ANY	3 or 4	☐
Free Elective 17	ANY	ANY	3 or 4	☐
Free Elective 18	ANY	ANY	3 or 4	☐
Free Elective 19	ANY	ANY	3 or 4	☐
Free Elective 20	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			57-60	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

¹ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 58-61. Directed Course Work (DCW) can be taken to complete free electives.

Major Requirements - Anthropology/Sociology - Table 2

Major Core Requirements	Code	Course Title	Credit Hours	
Major Core 1	ANTH 100	Introduction to Cultural Anthropology	4	☐
Major Core 2	SOC 100	Introduction to Sociology	4	☐
Major Core 3	ANTH 320	Qualitative Research Methods	4	☐
	OR			
	SOC 320	Quantitative Research Methods	4	☐
Major Core 4	ANTH 310	Classical Anthropological Theory	4	☐
	OR			
	SOC 310	Classical Sociological Theory	4	☐
Total Major Core Credit Hours			16	
Major Elective Requirements*	Code	Course Title	Credit Hours	
Major Elective 1	ANTH/SOC (XXX)	ANY	4	☐
Major Elective 2	ANTH/SOC (XXX)	ANY	4	☐
Major Elective 3	ANTH/SOC (XXX)	ANY	4	☐
Major Elective 4	ANTH/SOC (XXX)	ANY	4	☐
Major Elective 5	ANTH/SOC (XXX)	ANY	4	☐
Major Elective 6	ANTH/SOC (300/400)	ANY	4	☐
Major Elective 7	ANTH/SOC (300/400)	ANY	4	☐
Major Elective 8	ANTH/SOC (300/400)	ANY	4	☒
Major Elective 9	ANTH/SOC (400)	ANY	4	☐
Total Major Elective Credit Hours			36	

***Major Elective Requirements:**

Major Elective Requirements 1 – 5:

- Students can enroll in 200 or 300 or 400 level courses to complete the requirements.
- 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 6– 9:

- Students can only enroll in 300 or 400 level courses.
- At least one course at 400 level is mandatory.

Senior Project (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year.
- It has a total of 8 CHs, spread over two semesters with 4 CHs each.

- It will count as TWO ELECTIVES at 200-level BUT will NOT fulfil the 300/400 level major elective requirements.

Each semester different major electives are offered, and the updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details. Some of the electives that have been offered over the years are as follows:

Sample Major Electives - Anthropology/Sociology - Table 3

Code	Course title	Credits
ANTH 237	Economic Anthropology: An Introduction	4
ANTH 238	Youth and Globalization	4
ANTH 235	Introduction to Development Studies	4
ANTH 236	Gift of Marcel Mauss: Is Reciprocity a Founding Principle of Society	4
ANTH 246	Political Ecology	4
ANTH 250	Gender and Power	4
ANTH 253	Women's Lives Across Cultures	4
ANTH 263	Food and Culture	4
ANTH 265	Parda: Muslim Veiling in South Asia	4
ANTH 266	An Introduction to the Anthropological Study of Kinship	4
ANTH 270	Anthropology of Art	4
ANTH 271	Visual Anthropology and Ethnographic Filmmaking	4
ANTH 276	Anthropology of Social Media	4
ANTH 280	Ethnography of Pakistan	4
ANTH 312	Modernity as a Way of Life	4
ANTH 352	Gender and Development	4
ANTH 360	Anthropology of Religions: Christianity and Islam	4
ANTH 361	Muslim Veiling: The Struggle for Identities in Diasporas	4
ANTH 432	The Anthropology of Globalization	4
ANTH 461	Ritual and Belief: Witchcraft, Magic and Religion	4
ANTH 464	Children of Abraham	4
SOC 223	Sociology of Education	4
SOC 230	Global Cities 1300-2000 A.D.	4
SOC 237	Remaking the Modern World: Technology & Social Change	4
SOC 252	The Scientific Imagination	4
SOC 233	Power, State and Society	4
SOC 235	Sociology of Religions	4
SOC 263	Africa in the World System	4
SOC 271	Deviance and Social Control	4
SOC 292	Masculinities	4
SOC 321	Comparative & International Education	4
SOC 342	Culture, Power and Society	4
SOC 344	Sociology of Intolerance	4
SOC 372	Contention and Rapture	4
SOC 410	Max Weber	4
SOC 412	Political Sociology	4
SOC 432	Colonialism and Colonial Legacies	4
SOC 462	Divided Cities	4
SOC 463	Spatial Politics and Citizenship in Urban Lives	4

Programme Structure - Political Science

Graduation Requirements:

Kindly refer to both Table 1 and Table 2 for the complete Political Science programme structure, totalling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

Political Science - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS, SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hours	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives ⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³ As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 58-61. Directed Course Work (DCW) can be taken to complete free electives.

Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Free Elective 15	ANY	ANY	3 or 4	☐
Free Elective 16	ANY	ANY	3 or 4	☐
Free Elective 17	ANY	ANY	3 or 4	☐
Free Elective 18	ANY	ANY	3 or 4	☐
Free Elective 19	ANY	ANY	3 or 4	☐
Free Elective 20	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			57-60	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements - Political Science - Table 2

Major Core Requirements	Code	Course Title	Credits	
Core 1	POL 100	Introduction to Political Science	4	☐
Core 2	POL 203	Introduction to Political Theory	4	☐
Core 3	POL 320	Comparative Politics	4	☐
Total Major Core Credit Hours			12	
Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	POL (XXX)	ANY	4	☐
Elective 2	POL (XXX)	ANY	4	☐
Elective 3	POL (XXX)	ANY	4	☐
Elective 4	POL (XXX)	ANY	4	☐
Elective 5	POL (XXX)	ANY	4	☐
Elective 6	POL (XXX)	ANY	4	☐
Elective 7	POL (XXX)	ANY	4	☐
Elective 8	POL (300/400)	ANY	4	☐
Elective 9	POL (300/400)	ANY	4	☐
Elective 10	POL (300/400)	ANY	4	☐
Total Major Elective Credit Hours			40	

***Major Elective Requirements:**

Major Elective Requirements 1 – 7:

- Students can enroll in POL 100 or 200 or 300 or 400 level courses to complete the requirements.
- Students can enroll in only one POL 100-level course.
- 100 or 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 8– 10:

- Students can only enroll in POL 300 or 400 level courses.

Senior Project in Political Science (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year.
- It has a total of 8 CHs, spread over two semesters with 4 CHs each.
- It will count as TWO ELECTIVES of POL at 200-level BUT will NOT fulfil the POL 300/400 level major elective requirements.
- SPROJ Code – POL 491A and POL 491B

Each semester different major electives are offered under the following sub-fields:

1. Political Theory and Methods
2. Comparative Politics
3. International Relations
4. Political Sociology and Political Anthropology
5. Political Economy

Students can choose major electives from as many, or just one sub-field.

The updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details. Some of the electives that have been offered over the years are as follows:

Sample Major Electives – Political Science - Table 3

Code	Course Title	Credits
Political Theory and Methods		
POL 228	Introduction to Quantitative research method	4
POL 302	Islamic Political Philosophy	4
POL 3212	Contemporary Politics	4
POL 305	Contemporary Debates in Political Philosophy	4
POL 348	The Discontent of Politics	4
POL 442	Governance and its discontent	4
POL 439	Political Systems	4
Comparative Politics		
POL 239	Introduction to Government and Politics of China	4
POL 212	Class Structure in Pakistan	4
POL 220	American Government and Politics	4

POL 321	Comparative Constitutional Law and Politics	4
POL 322	Politics of India	4
POL 3012	Nations and Nationalism: From Theory to Practice	4
POL 324	Marxism and the Modern World	4
POL 328	Politics of Pakistan	4
POL 329	Introduction to African Politics	4
POL 3119	Political Parties	4
POL 3112	Contention and Rupture	4
POL 363	Populism	4
POL 3118	Politics of Culture	4
POL 413	Media and Politics	4
POL 414	Constitutionalism in Pakistan	4
POL 4112	Political Leadership	4
POL 423	Civil Society and Social Movements	4
POL 429	Theories of Civil Military Relations	4
International Relations		
POL 131	Introduction to International Relations	4
POL 230	Theories of International Relations	4
POL 232	The Politics of International Terrorism	4
POL 330	International Politics of South Asia	4
POL 331	Pakistan's Foreign Relations	4
POL 433	Critical Issues in Pakistan's Foreign Policy	4
POL 435	Globalization: Theory and Practice	4
Political Economy		
POL 242	Introduction to Development Studies	4
POL 209	Introduction to Political Economy	4
POL 243	Political Economy of Development	4
POL 341	Political Economy of Pakistan	4
POL 342	IPE: States and Markets	4
POL 4212	Agrarian Change and Peasant Struggle in the Twenty-First Century	4
Political Sociology and Political Anthropology		
POL 263	Political Sociology	4
POL 462	Anthropology of Globalization	4
POL 463	Anthropology of State	4

Programme Structure – History

Graduation Requirements:

Kindly refer to both Table 1 and Table 2 for the complete History programme structure, totalling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

History - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS, SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hours	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives ⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Free Elective 15	ANY	ANY	3 or 4	☐
Free Elective 16	ANY	ANY	3 or 4	☐
Free Elective 17	ANY	ANY	3 or 4	☐
Free Elective 18	ANY	ANY	3 or 4	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 58-61. Directed Course Work (DCW) can be taken to complete free electives.

Free Elective 19	ANY	ANY	3 or 4	☐
Free Elective 20	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			57-60	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements - History - Table 2

Major Core Requirements	Code	Course Title	Credits	
Core 1	HIST 100	Introduction to Historical Studies	4	☐
	OR			
	HIST 101	World Civilizations	4	☐
	OR			
	HIST 102	Introduction to World History	4	☐
	OR			
	HIST 124	The World Since 1453	4	☐
Total Major Core Credit Hours			4	
Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	HIST (XXX)	ANY	4	☐
Elective 2	HIST (XXX)	ANY	4	☐
Elective 3	HIST (XXX)	ANY	4	☐
Elective 4	HIST (XXX)	ANY	4	☐
Elective 5	HIST (XXX)	ANY	4	☐
Elective 6	HIST (XXX)	ANY	4	☐
Elective 7	HIST (XXX)	ANY	4	☐
Elective 8	HIST (XXX)	ANY	4	☐
Elective 9	HIST (XXX)	ANY	4	☐
Elective 10	HIST (300/400)	ANY	4	☐
Elective 11	HIST (300/400)	ANY	4	☐
Elective 12	HIST (300/400)	ANY	4	☐
Total Major Elective Credit Hours			48	

***Major Elective Requirements:**

Major Elective Requirements 1 – 9:

- Students can enroll in HIST 100 or 200 or 300 or 400 level courses to complete the requirements.

- Students can only enroll in three HIST 100-level courses.
- 100 and 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 10– 12:

- Students can only enroll in HIST 300 or 400 level courses.

Senior Project in History (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year.
- It has a total of 8 CHs, spread over two semesters with 4 CHs each.
- It will count as TWO ELECTIVES of HIST at 200-level BUT will NOT fulfil the HIST 300/400 level major elective requirements.
- SPROJ Code – HIST 491A and HIST 491B

Each semester different major electives are offered under the following sub-fields:

1. Introductory Courses
2. History of Art and Architecture
3. South Asian History
4. Islamic History
5. Global History

Students can choose major electives from as many, or just one sub-field.

The updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details. Some of the electives that have been offered over the years are as follows:

Sample Major Electives - History - Table 3

Introductory Courses		
HIST 112	Introduction to Archaeology	4
HIST 122	East Asian History	4
HIST 126	Europe from the Neolithic to the 1600s	4
HIST 127	A People's History of Pakistan	4
History of Art and Architecture		
HIST 211	Art of Ancient Cultures	4
HIST 215	Buddhist Art and Architecture in the Subcontinent	4
HIST 216	Islamic Art and Architecture: An Historical Introduction	4
HIST 312	Mughal Architecture Babur to Aurangzeb	4
HIST 314	19th Century Sikh Wall Paintings in the Punjab	4
South Asian History		
HIST 2213	Foundations of Modern South Asian History	4
HIST 3213	The Regional Histories of Pakistan	4
HIST 327	The Mughals and their World	4
HIST 3214	Violence and Conflict in the Post-Colonial State in South Asia	4

HIST 3215	Imperialism and its Discontents in South Asia	4
HIST 439	Gender, Sexuality, and South Asia	4
HIST 422	South Asian History in Transnational Perspective	4
Islamic History		
HIST 232	The Islamic World, 600-1500 CE	4
HIST 334	The Islamic Intellectual Tradition: Hadith, Law and Theology	4
HIST 235	Jihad: A Social, Political and Theological History	4
HIST 3212	Resistance, Reform and Revolution: Islamic Movements Since 1800	4
Global History		
HIST 238	Debating Revolutions	4
HIST 2311	Nature, Power and Modernity	4
HIST 2216	World War Two: An Introduction	4
HIST 2215	The History of Colonial Expansion 1492 to 1919	4
HIST 2211	Modern East Asian History	4
HIST 2313	Global Environmental History	4
HIST 2323	Science and the Modern World	4
HIST 3314	Technology and Social Change	4
HIST 3219	Capitalism: A History	4
HIST 3313	Dictatorship and Democracy: Europe 1919-1939	4
HIST 3310	The Atomic Age	4
HIST 329	The Cold War	4
HIST 3212	Resistance, Reform and Revolution	4
HIST 3211	China in Revolution, 1911-2011	4
HIST 335	The Urban Experience	4
HIST 436	War, Society and Memory	4

Programme Structure – English

The BA (Honors) English program offers students individualized access to excellent teaching on Greek, British, American, African and World Literatures with a view to training students in methods of contextual reading, critical thinking and writing. One of the core objectives of the program is to engage students with ongoing debates about decolonizing knowledge and sensitizing them to pertinent contemporary concerns such as racial politics, migration, displacement, and climate change. The program uses literary and visual discourse to encourage sustained engagement with issues of power, positionality, ethics and agency in local and transnational contexts.

The program puts particular emphasis on the historical, social and political conditions surrounding literary production and reception. The courses draw upon a broad range of methodologies and theoretical approaches, such as historiography, postcolonialism, feminism, Marxism, post-structuralism, ecocriticism, medical humanities and affect theory to mention just a few. By honing skills in critical thinking and rhetorical analysis, the English major produces broadly educated and multifaceted graduates. Students are expected not just to grapple with the range of meanings and moments present in poetry, novels, plays, films, young adult fiction, creative writing and popular culture, but also to produce compelling writing of their own. The craft of research, scholastic writing and knowledge of the great intellectual debates on literary criticism are distinguishing features of the English major.

Our students acquire multiple valuable skills such as effective communication, analysis, synthesis, problem-solving, and evaluation which apply to numerous professional fields. Our graduates have pursued careers in civil service, journalism, digital humanities, communications, arts, teaching, counselling and development sector. Additionally, many of them have embarked upon higher studies in creative writing, social sciences and humanities doctoral programs abroad.

Graduation Requirements:

Kindly refer to both Table 1 and Table 2 for the complete English programme structure, totalling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

English - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS, SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hours	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives ⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 58-61. Directed Course Work (DCW) can be taken to complete free electives.

Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Free Elective 15	ANY	ANY	3 or 4	☐
Free Elective 16	ANY	ANY	3 or 4	☐
Free Elective 17	ANY	ANY	3 or 4	☐
Free Elective 18	ANY	ANY	3 or 4	☐
Free Elective 19	ANY	ANY	3 or 4	☐
Free Elective 20	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			57-60	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements - English - Table 2

Major Core Requirements	Code	Course Title	Credits	
Core 1	ENGL 1000	Introduction to Literature in English	4	☐
	OR			
	ENGL 1111	The Word and the World	4	☐
Core 2	ENGL 3510	Literary Theory	4	☐
	OR			
	ENGL 4572	Colonial Discourse and Postcolonial Theory	4	☐
Total Major Core Credit Hours			8	
Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	ENGL (XXX)	ANY	4	☐
Elective 2	ENGL (XXX)	ANY	4	☐
Elective 3	ENGL (XXX)	ANY	4	☐
Elective 4	ENGL (XXX)	ANY	4	☐
Elective 5	ENGL (XXX)	ANY	4	☐
Elective 6	ENGL (XXX)	ANY	4	☐
Elective 7	ENGL (XXX)	ANY	4	☐
Elective 8	ENGL (300/400)	ANY	4	☐
Elective 9	ENGL (300/400)	ANY	4	☐

Elective 10	ENGL (300/400)	ANY	4	☐
Elective 11	ENGL (300/400)	ANY	4	☐
Total Major Elective Credit Hours			44	

***Major Elective Requirements:**

Major Elective Requirements 1 – 7:

- Students can enroll in ENGL 100 or 200 or 300 or 400 level courses to complete the requirements.
- Students can only enroll in one ENGL 100-level course.
- 100 and 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 8– 11:

- Students can only enroll in ENGL 300 or 400 level courses.

Senior Project in English (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year.
- It has a total of 8 CHs, spread over two semesters with 4 CHs each.
- It will count as TWO ELECTIVES of ENGL at 200-level BUT will NOT fulfil the ENGL 300/400 level major elective requirements.
- SPROJ Code – ENGL 491A and ENGL 491B

Each semester different major electives are offered under the following sub-fields:

1. Gateway Courses
2. American Literature
3. British Literature
4. Theory
5. Masterworks in Translation
6. World Anglophone Literature

Students can choose major electives from as many, or just one sub-field.

The updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details. Some of the electives that have been offered over the years are as follows:

Sample Major Electives - English – Table 3

GATEWAY COURSES		CREDITS
ENGL 1111	The Word and the World	4
ENGL 1000	Introduction to Literature in English	4
ENGL 2912	Introduction to Film Studies	4
AMERICAN LITERATURE		
ENGL 3264	Articulations of Nation; 19th Century American Poetry	4
ENGL 2252	Major Voices in contemporary American Fiction	4
ENGL 3254	Whale of a Tale; 19th Century American Novel	4

ENGL 2152	Gangs, Wizards and Soldiers: Young Adult Literature through the Ages	4
ENGL 2151	The Anti Scooby Doo's: A Selective Survey of Detective Fiction	4
ENGL 2253	Age of Modernism: Early 20th Century American Fiction	4
BRITISH LITERATURE		
ENGL 2353	Early 20th Century British and Irish Fiction	4
ENGL 2354	The Victorian Novel: Charles Dickens to Thomas Hardy	4
ENGL 2364	The Romantic Imagination: British Romantic Poetry	4
ENGL 3131	Greek and Shakespearean Tragedy	4
ENGL 3336	William Shakespeare	4
THEORY		
ENGL 4572	Colonial Discourse and Postcolonial Theory	4
ENGL 4591	Translation Theory	4
MASTERWORKS IN TRANSLATION		
ENGL 2652	Magical Realism	4
ENGL 3654	19th Century European Fiction: Tolstoy and Dostoevsky	4
WORLD ANGLOPHONE LITERATURE		
ENGL 2712	Modern South Asian Literature	4
ENGL 2713	Literature of Conflict	4
ENGL 3111	Literature of the Muslim World	4
ENGL 2132	Words are all we have: Identity Predicament in the Theatre of Absurd	4
ENGL 3152	The City in Literature	4
ENGL 3191	Literary Adaptations and its Discontents	4
ENGL 3711	Imagining Lahore	4
ENGL 3611	I am an Arab: Social & Pol. Dimensions in Contemporary Arab Lit.	4
ENGL 2212	Their Eyes were Watching God: Afro-American Voices in Literature	4
ENGL 2131	Modern Drama	4
ENGL 3112	Women of the Global South	4
ENGL 2111	Thinking like a Mountain: Literature and the Environment	4
ENGL 3150	Contemporary Short Stories	4
ENGL 3151	End of Nature: Disaster and Geopolitics in Environ. Fiction	4
ENGL 3812	African Literature	4

Programme Structure - Comparative Literature and Creative Arts (CLCA)

Comparative Literature and Creative Arts (CLCA) is an interdisciplinary programme designed for students with an interest in the art and aesthetics of storytelling and narratives across written, visual, and digital forms. Through the intersection of literature and the creative arts, the programme trains students to be both insightful critics and skilled practitioners. In addition to developing critical and creative abilities, students gain practical, marketable skills that are applicable in a wide range of professional contexts.

Graduation Requirements:

Kindly refer to both Table 1 and Table 2 for the complete Comparative Literature and Creative Arts (CLCA) programme structure, totaling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

Comparative Literature and Creative Arts (CLCA) - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS, SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hours	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives ⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Free Elective 15	ANY	ANY	3 or 4	☐
Free Elective 16	ANY	ANY	3 or 4	☐
Free Elective 17	ANY	ANY	3 or 4	☐
Free Elective 18	ANY	ANY	3 or 4	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 58-61. Directed Course Work (DCW) can be taken to complete free electives.

Free Elective 19	ANY	ANY	3 or 4	☐
Free Elective 20	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			57-60	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements - Comparative Literature and Creative Arts (CLCA) - Table 2

Major Core Requirements	Code	Course Title	Credits	
Core 1	CLCA 1000	Engaging with Texts and Contexts	4	☐
Core 2	CLCA 2222 (previously CLCS 1202)	The Critical Lens: The Art of Filmmaking	4	☐
	OR			
	CLCA 2310	Fiction-Writing Workshop	4	☐
	OR			
	CLCA 3000	Methods in Comparative Literature	4	☐
Total Major Core Credit Hours			8	
Major Elective Requirements*	Code	Course Title	Credits	
Language Level 1 (mandatory)	Any level 1 LANG course (mandatory)	ANY	4	☐
Elective 1	CLCA (XXX)	ANY	4	☐
Elective 2	CLCA (XXX)	ANY	4	☐
Elective 3	CLCA (XXX)	ANY	4	☐
Elective 4	CLCA (XXX)	ANY	4	☐
Elective 5	CLCA (XXX)	ANY	4	☐
Elective 6	CLCA (XXX)	ANY	4	☐
Elective 7	CLCA (XXX)	ANY	4	☐
Elective 8	CLCA (300/400)	ANY	4	☐
Elective 9	CLCA (300/400)	ANY	4	☐
Elective 10	CLCA (300/400)	ANY	4	☐
Total Major Elective Credit Hours			44	

***Major Elective Requirements:**

Language Level 1:

- Students are required to take one language course (Level 1).

- Students can opt to take Arabic, Pashto, Persian, Punjabi, and Sindhi or another Level 1 language course offered under the LANG code (4 credit hour).
- Provisions to opt out of the language requirement and take additional CLCA electives are in place with demonstrated language proficiency and testing. Please see Appendix 1 for more details on language requirements and exceptions.

Major Elective Requirements 1 – 7:

- Students can enroll in CLCA 100 or 200 or 300 or 400 level courses to complete the requirements.
- Students can only enroll in three CLCA 100-level courses.
- 100 and 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 8 – 10:

- Students can only enroll in CLCA 300 or 400 level courses.
- At least three courses at the 300 or 400 level are mandatory.

Senior Project in Comparative Literature and Creative Arts (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year.
- It has a total of 8 CHs, spread over two semesters with 4 CHs each.
- It will count as TWO ELECTIVES of CLCA at 200-level BUT will NOT fulfil the CLCA 300/400 level major elective requirements.
- SPROJ Code – CLCA 491A and CLCA 491B

Each semester different major electives are offered, and the updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details. Some of the electives that have been offered over the years are as follows:

Sample Major Electives – Comparative Literature and Creative Arts (CLCA)—Table 3

Comparative Literature		
CODE	COURSE TITLE	CREDITS
CLCA 1122	Reading in Urdu Literature	4
CLCA 2113	Western Canon I	4
CLCA 2116	Shahnameh: The Story of Our World	4
CLCA 2117	Western Canon II	4
CLCA 2122	Urdu Afsana	4
CLCA 2123	Aesthetics of the Modern Urdu Nazm	4
CLCA 2124	Naya Urdu Afsana	4
CLCA 2125	The Pakistani Hero, the Pakistani Ayyar	4
CLCA 2128	Partition Literature in Urdu	4
CLCA 2133	Fountain of the Sun: Rumi's <i>Masnavi</i> and <i>Divan</i>	4
CLCA 2413	Culture After Empire	4
CLCA 3112	The Novel	4
CLCA 3113	Kafka	4

CLCA 3116	Writing About Great Books	4
CLCA 3122	Mir and Ghalib	4
CLCA 3123	<i>Aag Ka Darya: A Close Reading</i>	4
CLCA 3124	Post-Colonial Thought in Urdu Literature	4
CLCA 3126	Faiz Ahmad Faiz: Resistance and Aesthetics	4
CLCA 3127	The Indomitable Fiction: The <i>Dastan e Amir Hamza</i>	4
CLCA 3142	The Poetics and Politics of a Performative Past: <i>Vaar</i> in Punjabi Literary Tradition	4
CLCA 4113	Orientalism	4

Creative Arts – Theory & Practice

CLCA 1212	Elements of a Screenplay	4
CLCA 2119	Mechanics of Fiction	4
CLCA 2212	Cinemas of Asia, Africa, and Latin America	4
CLCA 2213	Explorations in Pakistani Cinemas	4
CLCA 2214	Mechanics of Film	4
CLCA 2223	Contemporary Screens: The Art of the Web Series	4
CLCA 2312	Fiction Writing in Urdu and Punjabi	4
CLCA 2402	Book Illustration	4
CLCA 2523	Introduction to Illustrative Storytelling	4
CLCA 3211	Film and Screen Studies Research Seminar	4
CLCA 3212	The Chromatic Lens: The Evolution of Colour from Film to Digital	4
CLCA 3215	Gender and Urban Screen Narratives	4
CLCA 3242	The Art of Film Criticism	4
CLCA 3312	The Art of the Novella	4
CLCA 3324	The Craft of Translation	4

APPENDIX 1: CLCA Language Requirements and Exceptions

The language requirement for CLCA majors can be fulfilled through a variety of options.

For many students this may be taking Level 1 (one course of 4 credit hours) of any of the languages offered under LANG (Gurmani Centre), which include Arabic, Pashto, Persian, Punjabi, and Sindhi. However:

1. In the case a student demonstrates basic fluency in any of the above languages, they can test out of the language requirement. To do so, students must sit a standard language proficiency test administered by CLCA. A student who tests out of the language requirement can take an additional CLCA course to make up the 52 credit hours (13) courses required for the major.
2. Some students may also have completed language courses during exchange programmes. For these students, approval of courses is required from CLCA. The course must cover standard LANG Level 1 requirements.
3. Because the CLCA programme is focused on regional languages, students are advised to study from the offerings available or from related languages. In the case that a student is proficient in another language (for example, Korean, French, or Spanish), they must provide official evidence of this knowledge via a transcript or diploma, etc.

Programme Structure - Psychology

Graduation Requirements:

Kindly refer to both Table 1 and Table 2 for the complete Psychology programme structure, totaling 130 Credit Hours. Each semester, a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

Psychology - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS, SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS, SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hour	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³ As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 58-61. Directed Course Work (DCW) can be taken to complete free electives.

Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Free Elective 15	ANY	ANY	3 or 4	☐
Free Elective 16	ANY	ANY	3 or 4	☐
Free Elective 17	ANY	ANY	3 or 4	☐
Free Elective 18	ANY	ANY	3 or 4	☐
Free Elective 19	ANY	ANY	3 or 4	☐
Free Elective 20	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			57-60	
School Thematic Requirements	Core Bucket Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements - Psychology - Table 2

Major Requirements	Core Code	Course Title	Credits	
Core 1	PSY 100	Introduction to Psychology and Human Behavior	4	☐
Core 2	PSY 201	Cognition	4	☐
Core 3	PSY 220	Psychopathology	4	☐
Core 4	PSY 303	Quantitative Research methods and Statistics in Psychology	4	☐
Total Major Core Credit Hours			16	☐
Major Requirements*	Elective Code	Course Title	Credits	
Elective 1	PSY (3XX)	ANY	4	☐

Elective 2	PSY (3XX)	ANY	4	☐
Elective 3	PSY (XXX)	ANY	4	☐
Elective 4	PSY (XXX)	ANY	4	☐
Elective 5	PSY (XXX)	ANY	4	☐
Other Major Elective Requirements²	Code	Course Title	Credits	☐
Other Major Elective 1	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Other Major Elective 2	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Other Major Elective 3	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Other Major Elective 4	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Other Major Elective 5	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Other Major Elective 6	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Major Elective Psychology 7	PSY, PHIL, ENGL, HIST, CLCA, SS, GSS, ENV, SOC, ANTH, POL	ANY	4	☐
Total Major Elective Credit Hours			48	☐
Total Major Credits			64	☐

Major Requirements (Psychology)

- Students should complete a minimum of 9 (4Credits) courses in Psychology (cores + electives)
- Students should enroll in all core courses listed above
- Students should complete at least two 300+ level electives courses

Major Requirement (Humanities)

- Students should enroll in at least 7 (4 credits) in Psychology, Humanities and Social Sciences. These must be from among the list of courses approved by the Psychology Stream's Program Director.

Psychology Major Electives

Course Code	Course Title	Credit Hours
PSY 321	Lifespan Development	4
PSY244	Counseling and Psychotherapy	4
PSY2xx	Biological Basis of Behavior	4
PSY210	Perception	4

PSY240	Human memory	4
PSY308	Critical Multicultural Psychology	4
PSY212	Theories of Learning	4
PSY300	Social Psychology	4
PSY320	Theories of Personality	4
PSY370	Psychology of Love	4
PSY355	Classic Texts in Psychology	4
PSY303	Qualitative Research Methods in Psychology	4
PSY3xx	Mind Matters: Psychology of Artificial Intelligence	4
PSY3xx	Moral Psychology	4
	Senior Project (SPROJ) ³	4

Selected Humanities and Social Science Electives

ANTH 100	Introduction to Cultural Anthropology	4
CLCA 3112	The Novel	4
CLCA 3113	Kafka	4
CLCA 3122	Mir and Ghalib	4
ENGL 2713	Literature of Conflict	4
ENGL 3336	William Shakespeare	4
GSS 210	Introduction to Gender and Sexuality Studies	4
HIST 2322	A Brief History of Evil	4
PHIL 100	Introduction to Philosophy	4
PHIL 225	Moral Philosophy	4
PHIL 331	Philosophy of Social Sciences	4
PHIL 335	Topics in Philosophy of Mind	4
REL 200	What is Religion	4
REL 315	Religion and Existentialism	4
SOC 100	Introduction to Sociology	4
SOC 244	Language, Culture, and Society	4
SOC 271	Deviancy and Social Control	4
SOC 342	Culture, Power, and Society	4
SS 172	Programming and Data Analysis for Social Sciences	4
SS 187	Applied Statistics for Humanities	4
SS 388	Rethinking Data: Cause and Effect in the Humanities	4

Sample four-year timeline for the Psychology-Humanities Programme

Codes	Course	Credits	Codes	Course	Credits
First Year Fall			First Year Spring		
PSY100	Introduction to Psychology and Human Behavior	4	PSY 201	Cognition	4

MATH 101	Calculus I	3	PSYXXX	Major Psychology Elective 1	4
MGSHSS XXX	MGSHSS Core 2	4	HSS 101	First Year Faculty Mentorship Tutorials	0.5
MGSHSS XXX	MGSHSS Core 3	4	SS 100	Writing and Communication	4
HSS 101	First Year Faculty Mentorship Tutorials	0.5			
Second Year Fall			Second Year Spring		
PSY 220	Psychopathology	4	PSY 303	Quantitative Research Methods	4
PSYXXX	Major Psychology Elective 2	4	PSYXXX	Major Psychology Elective 3	4
	Other Major Elective 1	4		Other Major Elective 2	4
SS 101/SS102	Islamic Studies/Pakistan Students	2	SS 102/SS101	Pakistan Studies/Islamic Studies	2
	New University Core	3	MGSHSS XXX	MGSHSS Core 4	4
Third Year Fall			Third Year Spring		
PSYXXX	Major Psychology Elective 4	4	PSY3XX	Major Psychology Elective 5	4
	Other Major Elective 3	4	PSY3XXX	Other Major Elective 4	4
	Other Major Elective 5	4		Other Major Elective 6	4
	Outgroup 1	3/4	MGSHSS XXX	MGSHSS Core 5	4
				Outgroup 2	3/4
Fourth Year Fall			Fourth Year Spring		
MGSHSS XXX	MGSHSS Core 6	4		Outgroup 3	3/4
	Other Major Elective 7	4		Free Elective	3/4
	Free Elective	3/4		Free Elective	3/4
	Free Elective	3/4		Free Elective	3/4

Senior Project in the Humanities and Social Sciences Department

The senior year project (SPROJ) is meant to give students the “opportunity to use their foundational academic skills and content knowledge to gain new, deeper levels of understanding.” As the student handbook continues,

The project must challenge the student’s ability and the chosen topic needs to be of significant value to the student, the school, and the community. This directed learning experience involves thinking analytically, logically, and creatively integrating experience and knowledge to form reasoned judgements and solve problems that will help direct future career and educational opportunities.

This guidebook is a resource of departmental procedures, standards, and best practices, which also includes individual streams’ policies. Individual streams have considerable autonomy in determining their own procedures, standards, and best practices.

In what follows, the guidebook first lays out departmental standards and best practices; second, expected department-level outcomes; and third, department-level administrative procedures with which all faculty should be acquainted. The fourth part includes the SPROJ guidelines of each stream in the department.

I. Who Can Supervise an SPROJ?

Only full-time faculty employed by the HSS department can supervise an SPROJ or act as an examiner of the SPROJ. This includes full time tenure track, tenured, and non-tenure track faculty, teaching fellows, visiting faculty, lecturers, and teaching track faculty.

II. Departmental Standards

These are the standards that all streams are expected to meet.

- **Close, consistent, and quality supervision:** Faculty should develop schedules for regular meetings with students (once a month, or once every two weeks, etc.) and stick to them.
- **Supervision limits:** Faculty should supervise no more than two projects at a time. In extenuating circumstances, faculty may supervise three projects.
- **Student limits:** No more than two students are allowed per project. This is irrespective of the stream and degree of the students. They can submit one or two papers depending on the stream’s preference.
- **Second reader:** Each SPROJ should be read (i.e., examined) not only by the supervisor but also by another faculty member. Ideally that faculty member should be from the same stream or have interests and expertise directly relevant to the discipline(s) and topics of the SPROJ. Streams should have a deadline by when second readers should be selected. If a second reader is not selected in time, then the Chair of the Department of HSS, in conjunction with the relevant stream heads, will appoint one.
- **Enrollment:** Working on projects over the summer is not a substitute for enrollment in the SPROJ in the subsequent fall and spring terms.
Faculty may begin working informally with students over the summer, for example, by applying for the Students as Co-Researchers (ScR) program. However, students must still enrol in the SPROJ in the fall and spring terms.
- **Methodology prerequisite:** Each stream should clarify its methodology prerequisites for the students wanting to take an SPROJ, and ensure that the appropriate course(s), training, seminars, or workshops are offered in a timely manner.

- **Student Interaction:** Larger streams should encourage students to meet amongst themselves a few times to discuss their projects and learn from their peers.

III. Department Responsibilities

Every academic year the Chair of the HSS Department will appoint a full-time faculty member of the Department to serve as the HSS Department SPROJ Coordinator for part or all of the academic year. The coordinator, assisted by the Department's academic staff and in coordination with the Chair of the Department and the Dean's Office, will organize the following:

- **Prizes**
The best SPROJ projects will receive prizes that include honoraria and a printed and bound thesis.
- **Physical archiving**
All SPROJs will be catalogued and archived with the assistance of the academic staff. Students will be required to fill out a submission form and email a final editable copy to the department according to the provided template. SPROJs should have an abstract page. Students may request an embargo on the physical availability of their SPROJ.
- **Spring conference**
The HSS Department SPROJ Coordinator will organize a colloquium in the Spring semester where SPROJ students present their projects to faculty and their fellow students. This will facilitate inter- and multi-disciplinary conversations, encourage students, faculty, and others to engage with student research, and enable greater visibility for the SPROJ in general.

IV. Departmental Procedures

The process of planning a senior project starts prior to the enrollment phases of the semester. It is advisable that students start planning a senior project even prior to course selection and registration. Following steps are followed for SPROJ registration and review.

- Email to Juniors:** A email will be sent to juniors in March to start planning their SPROJ if they wish to it up in their senior year.
Points from 'b to d' are specific to every stream. However, these general guidelines are followed for approval and registration of a senior project.
- Select a topic and the potential supervisor:** Students should select a topic and supervisor before they plan to begin working on the project. Selecting a topic will involve three elements: choosing the subject students will be working on, the approach to the subject, and the form the project will take. The process of selecting a topic should involve consultation with the proposed supervisor.
- Write a proposal:** The students are required to draft a proposal before the semester in which students plan to complete the project.
- Review and Approval of the proposal:** The supervisor will review the proposal and formally give the approval to register for the SPROJ. During this phase, the supervisor and supervisee are responsible to get an IRB approval before initiating research for their project if it involves human subjects. This IRB later should be added to the Appendix.
- Registration for Directed Course Work (SPROJ, Independent Study and Directed Research Project) on Zambeel:** The RO announces registration before the commencement of enrollment phase I & II. Once the applications are approved by the coordinator they are forwarded to supervising faculty, which they can approve via their Zambeel self-service.

- f. **Enrollment:** After Zambeel approvals, the students are also required to enroll in SPROJ during the enrollment phases.
- g. **Data Collation:** After Zambeel approvals, the program coordinators collate the SPROJ students' data and send it to their respective SPROJ faculty coordinators. At this point programme coordinator will send an email with title page template and style guidelines.
- h. **Grading:** It is responsibility of the supervisor to enter SPROJ grade on Zambeel within the grading deadline.
- i. **SPROJ Prize and Archiving:** The final copy (fully formatted with title page included) of an SPROJ is shared with the department for archiving and final evaluation for an SPROJ Prize/Award. Each stream head will form a committee to evaluate SPROJs for best SPROJ prize. SPROJ prize will be awarded on convocation.

V. Programme-Specific Guidelines

Anthropology/Sociology

1. SPROJ in ANTH-SOC is two semesters long and is worth 8 credit hours. Students are required to apply via Zambeel for SPROJ 1 in Fall and SPROJ 2 in Spring.
2. Students opting for an SPROJ in Anthropology or Sociology can partner with only one other student. Groups of 3 or more people cannot do an SPROJ together.
3. To register for an SPROJ, a student must have a CGPA of 3.2. Exceptions can be made if the supervisor and the SPROJ coordinator approves.
4. The student applying for SPROJ in Anthropology and Sociology should have taken one of the following research methods courses; ANTH320 – Qualitative Research Methods or SOC320 – Quantitative Research Methods. Exceptions can be made if the student enrolls in a Research Methods course along with SPROJ enrollment. This requires approval from the SPROJ Coordinator and the supervisor.
5. Students are advised to contact potential supervisors before enrolling and discuss projects with them over the course of the summer.
6. The students are required to right an SPROJ proposal (1-2 pages long) highlighting proposed project and methodology. The title of the proposed project should be approved by the supervisor before applying on Zambeel.
7. SPROJ proposal colloquium is organized in late Fall semester and the final colloquium is held in Spring semester.
8. The first part of the SPROJ is graded as in-progress (I) on Zambeel and the final project is graded by the supervisor with a letter grade on Zambeel during grading phase of the Spring semester.

Comparative Literature and Creative Arts (CLCA)

1. The CLCA SPROJ is two semesters long and worth 8 credit hours. Students are required to apply for SPROJ term 1 (CLCA 491A) and SPROJ term 2 (CLCA 491B) via Zambeel.
2. CLCA students opting to undertake a senior project should ideally have a sense of their project and their supervisor (a faculty member in CLCA) by the spring of their junior year.
3. Students are required to complete the CLCA Senior Project Proposal form and submit it to their prospective supervisor before enrolling for the SPROJ.
4. CLCA senior projects can focus on one of the following sub-fields of the discipline: Comparative Literature, Literary Studies, Persian Literature, Translation, Creative Writing, Filmmaking Screen Studies, Visual and Digital Storytelling, and other relevant areas in Literature and the Arts. Details and requirements for projects in these sub-fields should be discussed with supervisors prior to beginning the project.

5. CLCA senior projects can be both scholarly (critical essay, film criticism etc.) and creative (short narrative or documentary film, novella, graphic novel, poetry, translations etc). Creative work must be accompanied by a short introduction, rationale, or treatment for the project and its methodology and other documentation required by the supervisor.
6. CLCA projects must grapple with the questions central to the programme and employ at least one non-English language.
7. Students may be asked to participate in a defense of their project and/or a small colloquium in the Spring semester of their senior year in which they share their work with faculty and peers.

English

1. The minimum CGPA requirement is 3.00
2. A one-page proposal to be submitted by mid-July. The proposal should have the following information:
 - Tentative titles (two or three)
 - Preferred supervisor's name
 - An abstract with thesis
 - Textual sources and 3-4 secondary sources
3. Further guidelines for the SPROJ breakdown and weightage:
 - Introduction and Chapter 1 to be submitted by the end of Fall Semester - 25%
 - Mid-term colloquium due at the end of Fall semester - 5%
 - Meetings with SPROJ Coordinator - 15%
 - Remaining chapters (submission date decided by the supervisor) - 45%
 - Final colloquium at the end of Spring Semester - 10%

If you are working in the English Literature stream you must have taken at least two courses with your supervisor.

History

1. Students must speak to the coordinator before the proposal is officially approved.
2. Over the course of the academic year, the SPROJ Coordinator will run several workshops or colloquia that the students are required to attend.
3. In the case that your supervisor is not part of one of the major-granting streams (Anthro/Socio, History, Literature in English, or Political Sciences), you must decide which field your project lies closest to and attend all Senior Project related activities run by the respective coordinator.
4. The final draft of the project will be graded by the faculty member advising the project, as well as by the second reader.
5. Faculty members are usually advised not to take on more than three Senior Projects per academic year. They may elect to take on fewer than three projects as well. Therefore, if you are interested in working with a particular advisor, please contact them sooner rather than later.

Political Science

1. Students are required to have a minimum SGPA of 3.0 in order to do the Senior Project in Political Science. Under exceptional circumstances, supervisors have the discretion to waive this requirement.
2. Students should have successfully completed the Qualitative Research Methods or where appropriate, Quantitative Analysis course before they start their senior project. All those students who have taken ECON 330 Econometrics or ANTH 320 Introduction to Qualitative Research Methods are not required to take POL 228 for the SPROJ enrollment.

3. The application process for the senior project requires the submission of a ONE-page proposal to stream SPROJ Coordinator at the end of the Spring term prior to the enrollment in the Senior Project. Students may consult and name a potential faculty supervisor. The proposal needs to outline a tentative title, aims and objectives, potential research question and methodology. The stream faculty will meet and decide what project is most suitable for which faculty members.
4. Two students may be allowed to do a joint project, but they must justify the need of a partner in terms of the project workload and this need to be demonstrated in the proposal. Only the instructor will allow the students to make a group where they seem that projects of two students overlap with one another.
5. Students must enroll for the senior project in the Fall and Spring semesters.
6. Students are expected to work on their projects over the summer, but this cannot be a substitute for the Fall or Spring semester.
7. The following rules are observed for grading of SPROJ in Political Science.
 - 20% of the grade is based on presentations and participation in seminars and colloquiums.
 - Supervisors have the discretion to break down the remaining 80% as they see fit. However, students who miss seminars and/or colloquiums are penalized 10% of their grade for each absence.
 - The final paper component of the grade will be an average of the supervisor and second grader's grade.
 - Students can select their second grader in consultation with their supervisor.

BSc Psychology

- SPROJ is not core but recommended.
- It is enrolled in Junior / Senior year.
- It has a total of 4 CH.

It will count as AN ELECTIVE at 200-level BUT will NOT fulfil the 300/400 level major elective requirements.

SPROJ in Minors:

1. These guidelines are specifically for SPROJ taken in the following minors:
 - Gender and Sexuality Studies
 - Philosophy
 - Psychology
 - Study of Religion
 - Environmental Studies
2. Senior Projects taken in the aforementioned areas will have minor specific codes rather the generic SS codes.
3. Only students pursuing the minor can sign up for a Senior Project in GSS, REL, PSY, PHIL, or ENV. In order to demonstrate this, the student must have taken 4 courses in the minor by the end of their Junior year.
4. In the event that a student is not minoring, the Senior Project course code will be in their major.
5. Students are advised not to pursue a Senior Project in these minors without have taken 4 courses in the minor by their Junior Spring.
6. The Senior Project does not count as part of the six courses required for the minor.

Guidelines for Minors in Humanities and Social Sciences

The Department of Humanities and Social Sciences offers minors in a range of disciplines:

1. Anthropology and Sociology
2. Comparative Literature and Creative Arts (CLCA)

3. English
4. Gender and Sexuality Studies
5. History
6. Philosophy
7. Political Science
8. Psychology
9. Study of Religion
10. Environmental Studies

The minor in HSS disciplines should appeal to students pursuing other majors. majors. They emphasize on the acquisition of intrinsically and instrumentally useful knowledge, as well as the cultivation of critical, analytical, and communication skills. By electing to minor in HSS disciplines, students will emerge from LUMS as well-rounded individuals, endowed with a wide repertoire of transferable skills and a unique insight, which should stand them in good stead as they prepare to embark on their careers.

Rules for HSS Minors

1. Students intending to complete a minor in a particular area should successfully complete a minimum of 6 regular courses carrying 4 credits each (for a total of 24 credit hours) in that area.
2. Students intending to minor in a particular area in HSS are required to complete two (2) core courses and four electives in that area. Of the four electives, at least two should be at the 300 level or above.
3. Political Science and Economics majors cannot minor in either Political Science or Economics.
4. Senior year project (Sproj) can be taken in minors. Details are given in the section of Senior Year Project in Humanities and Social Science Department.

Structure of HSS Minors

The two core courses in each of the areas of Anthropology/Sociology, History, and English, Philosophy, Political Science, Study of Religion, and Comparative Literature and Creative Arts (CLCA) are listed below:

HSS Minors – Table 1

Anthropology/Sociology
1. ANTH 100 Introduction to Cultural Anthropology
2. SOC 100 Introduction to Sociology

HSS Minors – Table 2

History
1. Any one 100-level History course
2. Any one 200 level History course

HSS Minors – Table 3

English
1. ENGL 1000 Introduction to Literature in English
2. ENGL 1111 The Word and the World

HSS Minors – Table 4

Political Science
1. POL 100 – Introduction to Political Science
2. POL 203 – Introduction to Political Theory

HSS Minors – Table 5

Psychology
1. PSY 100 – Human Behavior
2. PSY 220 – Abnormal Psychology OR PSY 201 – Cognition

HSS Minors – Table 6

Philosophy
1. PHIL 100 Introduction to Philosophy OR PHIL 102 Philosophy Gym
2. PHIL 130 Logic and Critical Reasoning
In addition, meeting either of the two types of objectives given below for the Philosophy minor, the students' choice of the rest of the four courses is made in accordance with the following specifications.
Students whose aim is Type 1 may, in consultation with the stream coordinator, choose any four philosophy courses including at least two courses that are pitched at level 300 or higher. - Students whose aim is Type 2 may pick four courses from any of the following recommended course groups. They must ensure that at least two of their courses are at level 300 or higher. Applied Ethics: Moral Philosophy/Ethics; Applied Ethics; Religion and Science; Philosophy and Economics; any other course with the coordinator's approval. Ethical Theory: Moral Philosophy/Ethics; Metaethics; Philosophy of Language; Knowledge and Reality; Philosophy and Economics; any other course with the coordinator's approval Logic and Language: Philosophy of Language; Philosophical Logic; Formal Logic; Analytic Philosophy; Philosophy of Wittgenstein; any other course with the coordinator's approval Epistemology and Metaphysics: Philosophy of Language; Knowledge and Reality; History of Western Philosophy OR Plato and Aristotle; Philosophy of Science/Philosophy of Social Science; Philosophy of Mind; any other course with the coordinator's approval. Political Philosophy: Western Political Philosophy; Moral Philosophy/Ethics; Applied Ethics; Metaethics; Political Economy; Democracy and Difference; any other course with the coordinator's approval.

HSS Minors – Table 7

Study of Religion
Students may take any two 200- level REL courses (With REL Prefix) to meet the core requirements for the minor

HSS Minors – Table 8

Comparative Literature and Creative Arts (CLCA)
1. CLCA 1000 Engaging with Texts and Contexts

2. CLCA 2222 The Critical Lens: The Art of Filmmaking (previously CLCS 1202) OR CLCA 2310 Fiction Writing Workshop OR CLCA 3000 Methods in Comparative Literature
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HSS Minors – Table 9

Environmental Studies	
1.	ENV 102 – Introduction to Environmental Studies
2.	ENV 210 – Methods in Environmental Studies

HSS Minors – Table 10

Gender and Sexuality Studies (GSS)	
1.	Introduction to Gender and Sexuality Studies
2.	Introduction to Feminist Theory

Department of Economics

Economics is often called the “science of choice.” The Economics major helps develop clear and rational problem-solving skills useful in business, government, corporate and non-government sectors. The major not only provides an understanding of economic institutions and how they impact segments of the economy, it also provides students with the skills to solve problems that confront organizations, governments and citizens. The economics major equips students with rigorous quantitative tools that allow them to understand the domestic and global economic environment and analyze its impact. The BSc. (Honours) Economics major is a quantitatively oriented programme that provides excellent preparation for graduate studies and careers in economics, business administration, non-government organizations, academia and the corporate sector.

The Department of Economics offers a four-year BSc (Honours) degree in four majors, namely, Economics, Political Science and Economics, Economics and Mathematics (Econ-Math), and Economics Data and Computer Science (ECON-CS). It also offers a Minor in Economics.

Programme Learning Objectives - Economics

Broad Programme Objective

To equip students with the tools and theoretical foundation of the economics discipline to ask and answer questions of social relevance.

Specific Programme Objectives

- To cultivate deep understanding of basic principles and theoretical foundations of the discipline
- To foster critical analysis and application of theoretical knowledge
- To train in latest economic techniques and enable students to deploy meaningful research designs
- To equip students with advanced quantitative skills for empirical analysis and data interpretation
- To develop a facility for effective written and oral presentation of ideas

Entry Requirement for the Economics Major:

- A student wishing to major in Economics must have completed ECON 111 Principles of Microeconomics and ECON 121 Principles of Macroeconomics with a passing grade by the end of their first year.

Programme Structure - Economics

Graduation Requirements:

Kindly refer to both Table 1, 2 and 3 for the complete Economics programme structure, totaling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar’s Office. The students must consult the course memo before planning their courses for completion of the requirements.

Economics - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐

Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	SE, EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hours	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Free Elective 11	ANY	ANY	3 or 4	☐
Free Elective 12	ANY	ANY	3 or 4	☐
Free Elective 13	ANY	ANY	3 or 4	☐
Free Elective 14	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			33-37	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first year)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first year)	NA	☐
Bucket 3	STEM	ANY (to be completed in first year)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 59-62. Directed Course Work (DCW) can be taken to complete free electives.

Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐
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Major Requirements - Economics – Table 2

Major Core Requirements	Code	Course Title	Credits	
Core 1	MATH 101/MATH 101H	Calculus I/ Calculus I (Honours)	3	☐
Core 2	ECON 111	Principles of Microeconomics	4	☐
Core 3	ECON 121	Principles of Macroeconomics	4	☐
Core 4	ECON 211	Intermediate Microeconomics	4	☐
Core 5	ECON 221	Intermediate Macroeconomics	4	☐
Core 6	ECON 230	Statistics and Data Analysis	4	☐
Core 7	ECON 330	Econometrics	4	☐
Core 8	Econ 2301	Data Analytics Lab I	2	☐
Core 9	Econ 3301	Data Analytics Lab II	2	☐
Total Major Core Credit Hours			31	
Major Elective Requirements	Code	Course Title	Credits	
Elective 1	ECON (XXX)	ANY	4	☐
Elective 2	ECON (XXX)	ANY	4	☐
Elective 3	ECON (XXX)	ANY	4	☐
Elective 4	ECON (400)	ANY	4	☐
Elective 5	ECON (400)	ANY	4	☐
Total Major Elective Credit Hours			20	

Core Timeline – Economics – Table 3

Code	Course	Credits	Code	Course	Credits
First Year Fall			First Year Spring		
ECON 111/121	Principles of Micro/Macro	4	ECON 111/121	Principles of Micro/Macro	4
MATH 101	Calculus I	3			
Second Year Fall			Second Year Spring		
ECON 221/211	Inter Macro/Micro	4	ECON 230	SDA	4
			ECON 2301	Data Analytics Lab I	2
			ECON 211/221	Inter Micro/Macro	4
Third Year Fall			Third Year Spring		
ECON 330	Econometrics	4			
ECON 3301	Data Analytics Lab II	2			

***Major Elective Requirements:**

Major Elective Requirements 1 – 3:

- Students can enroll in ECON 200 or 300 or 400 level courses to complete the requirements.

- 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 4– 5:

- Students can only enroll in ECON 400 level courses.

Senior Project in Economics (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year only.
- It can be worth 4 CHs, for just one semester or 8 CHs, spread over two semesters with 4 CHs each.
- It will count towards the free elective requirement, and not the major elective requirement.
- SPROJ Code – ECON 491A and ECON 491B

Faculty Supervision guidelines (ECON SPROJ):

- All Assistant Professors, Associate Professors and Professors may supervise SPROJ.
- All permanent Teaching Fellows at the CNM Department of Economics may supervise a SPROJ if it is co-supervised by any PhD faculty.
- Lecturers at the CNM Department of Economics can supervise SPROJ individually without PhD faculty co-supervision.

Essential Checkpoints:

- Students without an economics background may choose to enroll in either ECON 100 or directly in ECON 111/121. For Economics, Economics and Mathematics, Political Science and Economics, and Economics, Data and Computer Science majors, ECON 100 counts as a free elective it is not a core requirement.
- The department strongly recommends Economics majors to take ECON 262 **Mathematical Application in Economics**.
- MATH 100 – Pre calculus is a remedial course and counts towards the free elective requirement. It is compulsory for non-math background students to enroll in MATH 100
- It is mandatory to take ECON 2301 Data Analytics Lab I with ECON 230 Statistics and Data Analysis and ECON 3301 Data Analytics Lab II with ECON 330 Econometrics. Each lab is worth 2 credit hours. Data Analytics Labs I and II alone DO NOT count towards the economics core or elective requirement.
- Each 2-credit-hour lab for ECON 2301 and ECON 3301 will count toward the ECON major requirements.
 - With the addition of ECON 2301 and ECON 3301 to ECON 230 SDA and ECON 330 Econometrics respectively, ECON 230 is no longer equivalent to MATH 231 Statistics and DISC 203 Probability and Statistics. ECON 330 Econometrics is no longer equivalent to FINN 321 Econometrics course.
 - However, to facilitate the enrollment of SDSB students in Economics courses DISC 203 and FINN 321 is still considered equivalent in some ECON electives only. For more details regarding these elective courses, contact UGPCO SDSB and PCO Economics MGSASS.
- Students who transfer into the Economics Department or students who go on an exchange programme or take a cross-listed Economics electives across schools worth 3 credit hours and fall short of 1 or 2 credits in their economics core or elective courses are allowed to take a 1 or 2 credit hour Independent Study to fulfil graduation requirements. Those falling short of 3 or 4 credit hours can take an Economics elective course in addition to their major requirements. Moreover, students

CANNOT take ECON 230 Statistics and Data Analysis and ECON 330 Econometrics on exchange programs.

- Each semester different major electives are offered, and the updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details. Some of the electives that have been offered over the years are as follows:

Sample Major Electives - Economics - Table 3

CODE	COURSE TITLE
ECON 202	Readings in Economics
ECON 203	Reading Marx with Dickens
ECON 213	Behavioural Economics
ECON 233	Introduction to Game Theory
ECON 240	Development Economics
ECON 244	Introduction to Environmental Economics
ECON 245	Water Economics
ECON 247	Sectors and Policy in Development
ECON 261	Principles of Finance
ECON 311	Industrial Organization
ECON 3110	Economics of Organizations and Management
ECON 314	Law and Economics
ECON 317	The Economics of Corruption
ECON 319	Agriculture, Price and Income policy
ECON 334	Time Series Econometrics
ECON 3312	Machine Learning for Social Scientists
ECON 343	Agriculture and Food Policy
ECON 3402	Gender Economics
ECON 3403	Managing Pakistan Economy
ECON 3604	Bank Financial Management
ECON 3421	An Introduction to the Methods and Practice of Impact Evaluation
ECON 352	International Finance
ECON 363	Economics of Investment and Finance
ECON 3602	Money and Central Banking
ECON 371	Public Economics
ECON 372	Urban Economics
ECON 406	Economics of Education
ECON 411	Advanced Microeconomics
ECON 414	Applied Microeconomics
ECON 417	Readings in the Political Economy of the Media
ECON 419	Advanced Behavioral Economics
ECON 4102	Gender and the Labor Market
ECON 421	Advanced Macroeconomics
ECON 425	Applied Macroeconomics
ECON 427	Computational Macroeconomics
ECON 438	Econometrics II
ECON 428	East Asian Economies

ECON 4302	Cooperative Games – Theory and Applications
ECON 441	Development Economic Theory
ECON 449	Philosophy and Economics
ECON 4402	Putting Social Science To the Test: Mixed Method Approaches to Lahore’s Developmental Challenges
ECON 466	Financial Crises
ECON 468	Options Swaps and Futures
ECON 469	Advanced Corporate Finance
ECON 4410	Issues in Economic Policy
ECON 4413	Poverty and Income Distribution
ECON 4414	Topics in Energy Economics
ECON 4416	Advanced Urban Economics

Programme Structure - The Political Science and Economics (Joint Major)

The Political Science and Economics (P&E) Joint Major provides a strong base to those who intend to have knowledge of the political economy. The P&E programme is a carefully constructed major that provides students the opportunity to study two disciplines, as well as areas that cut across traditional departmental and disciplinary lines. Through courses developed and taught by Economics and Political Science faculty, students examine the globalizing world using a variety of conceptual lenses supplied by the social sciences, learn multiple ways of solving problems, and explore areas of inquiry that intersect traditional disciplines. The courses in Political Science and Economics help students understand the dynamics of political systems, how they affect international relations and how they support a nation, thus realizing their responsibility to the society and the country. The study of Economics prepares students to take part in governmental policy making and changes in economic systems. Economic study not only impacts the individuals but also contribute to the society at large.

Graduation Requirements:

Kindly refer to Table 1, Table 2 and Table 3 for the complete Political Science and Economics programme structure, totaling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar’s Office. The students must consult the course memo before planning their courses for completion of the requirements.

Political Science and Economics - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ¹ 1	SE, EDU, LAW	ANY ²	3 or 4	☐
Out-Group 2	SE, EDU, LAW	ANY	3 or 4	☐
Out-Group 3	SE, EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hour	
Freshman Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives ³	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			24-28	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Political Science and Economics – Table 2

Economic Major Core Requirements	Code	Course Title	Credits	
Core 1	ECON 111	Principles of Microeconomics	4	☐
Core 2	ECON 121	Principles of Macroeconomics	4	☐
Core 3	ECON 230	Statistics and Data Analysis	4	☐
Core 4	ECON 2301	Data Analytics Lab I	2	☐

¹ Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

²As per the course memo

³ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 50-53. Directed Course Work (DCW) can be taken to complete free electives.

Core 5	ECON 330	Econometrics	4	☐
Core 6	ECON 3301	Data Analytics Lab II	2	☐
Total Major Core Credit Hours			20	
Economics Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	ECON (XXX)	ANY	4	☐
Elective 2	ECON (400)	ANY	4	☐
Total Major Elective Credit Hours			8	

***Economics Major Elective Requirements:**

Major Elective Requirements 1:

- Students can enroll in ECON 200 or 300 or 400 level courses to complete the requirements.
- 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 2:

- Students can only enroll in ECON 400 level course.

Political Science and Economics - Table 3

Politics Major Core Requirements	Code	Course Title	Credits	
Core 1	POL 100	Introduction to Political Science	4	☐
Core 2	POL 203	Introduction to Political Theory	4	☐
Core 3	POL 320	Comparative Politics	4	☐
Total Major Core Credit Hours			12	
Politics Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	POL (XXX)	ANY	4	☐
Elective 2	POL (XXX)	ANY	4	☐
Elective 3	POL (XXX)	ANY	4	☐
Elective 4	POL (300/400)	ANY	4	☐
Elective 5	POL (300/400)	ANY	4	☐
Total Major Elective Credit Hours			20	

*** Political Science and Economics Major Elective Requirements:**

Major Elective Requirements 1 – 3:

- Students can enroll in POL 200 or 300 or 400 level courses to complete the requirements.
- 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 4 - 5:

- Students can only enroll in POL 300 or 400 level course.

Core timeline- Political Science and Economics- Table 4

Code	Course	Credits	Code	Course	Credits
First Year Fall			First Year Spring		
ECON 111/121	Principles of Micro/Macro	4	ECON 111/121	Principles of Micro/Macro	4
MATH 101	Calculus I*	3	POL 100	Introduction to Political Science	4
Second Year Fall			Second Year Spring		
POL 203	Introduction to Political Theory	3	ECON 230	SDA	4
			ECON 2301	Data Analytics Lab I	2
Third Year Fall			Third Year Spring		
ECON 330	Econometrics	4	POL 320	Comparative Politics	4
ECON 3301	Data Analytics Lab II	2			

*Note: BSc Econ/Pol students will have to take MATH 101 Calculus 1 in their first year. While not part of the Economics core, this course serves as a prerequisite to ECON 230 Statistics and Data Analysis.

Senior Project in Political Science and Economics (SPROJ):

- SPROJ is optional.
- Students enroll for the Sproj in their Senior year.
- If the SPROJ is from the Political Science programme, rules of HSS apply.
- If the SPROJ is from the Economics programme, rules of ECON apply.

Essential Checkpoints:

- Students without an economics background may choose to enroll in either ECON 100 or directly in ECON 111/121. For Economics, Economics and Mathematics, Political Science and Economics, and Economics, Data and Computer Science majors, ECON 100 counts as a free elective it is not a core requirement.
- MATH 100 – Pre calculus is a remedial course and counts towards the free elective requirement. It is compulsory for non-math background students to enroll in MATH 100
- MATH 101 – Calculus 1 will be an outgroup for Political Science and Economics major.
- It is mandatory to take ECON 2301 Data Analytics Lab I with ECON 230 Statistics and Data Analysis and ECON 3301 Data Analytics Lab II with ECON 330 Econometrics. Each lab is worth 2 credit hours. Data Analytics Labs I and II alone DO NOT count towards the economics core or elective requirement.
- Each 2-credit-hour lab for ECON 2301 and ECON 3301 will count toward the ECON major requirements.
- With the addition of ECON 2301 and ECON 3301 to ECON 230 SDA and ECON 330 Econometrics respectively, ECON 230 is no longer equivalent to MATH 231 Statistics and DISC 203 Probability and Statistics. ECON 330 Econometrics is no longer equivalent to FINN 321 Econometrics course.

- However, to facilitate the enrollment of SDSB students in Economics courses DISC 203 and FINN 321 is still considered equivalent in some ECON electives only, for more details regarding these elective courses, contact UGPCO SDSB and PCO Economics MGSHSS.
- Pol/Econ students cannot enroll in POL 228 as it is an anti-requisite of ECON 230. They must take ECON 230 as their core requirement
- Students who transfer into the Economics Department or students who go on an exchange programme or take a cross-listed Economics elective across schools worth 3 credit hours and fall short of 1 or 2 credits in their economics core or elective courses are allowed to take a 1 or 2 credit hour Independent Study to fulfil graduation requirements. Those falling short of 3 or 4 credit hours can take an Economics elective course in addition to their major requirements. Moreover, students CANNOT take ECON 230 Statistics and Data Analysis and ECON 330 Econometrics on exchange programs.
Each semester different major electives are offered, and the updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for the planning of courses and additional details.

Programme Structure – The Economics and Mathematics (Joint Major)

The Economics and Mathematics Joint Major provides a strong base to those students who intend to pursue further studies at the graduate level in the field of Economics. Students seeking admission to a graduate programme have a higher chance of getting admitted to top ranked schools if they have taken mathematics courses like calculus, real analysis, and linear algebra, during their undergraduate degree programme.

Programme Learning Objectives – Economics and Mathematics Joint Major

Broad Programme Objective

To equip students with the tools and theoretical foundation of the economics and mathematics disciplines to ask and answer questions of academic and social relevance.

Specific Programme Objectives

- To cultivate deep understanding of basic principles and theoretical foundations mathematics and economics
- To foster critical analysis and application of theoretical knowledge
- To train in latest economic techniques and enable students to deploy meaningful research designs
- To equip students with advanced quantitative skills for empirical analysis and data interpretation
- To develop a facility for effective written and oral presentation of ideas
- To academically prepare students so that they are able to pursue graduate studies in economics from the best institutions around the world.

Entry Requirement for the Economics and Mathematics Joint Major:

A student wishing to major in Economics and Mathematics must have the following, at the time of applying for this major:

- 1) A CGPA of 3.3 or above.
- 2) A minimum 'B' grade, both in Calculus-I/Calculus-I (Honours) and Linear Algebra with Differential Equations/ Linear Algebra I (Honours)

The maximum number of students accepted into this major each year is 30.

Graduation Requirements:

Kindly refer to Table 1, 2, 3 and 4 for the complete Economics and Mathematics programme structure, totaling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

Economics and Mathematics - Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS (excluding all FINN courses) SE (excluding all MATH courses), EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS (excluding all FINN courses) SE (excluding all MATH courses), EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS (excluding all FINN courses) SE (excluding all MATH courses), EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hour	
Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives⁴	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo

⁴ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 51-56. Directed Course Work (DCW) can be taken to complete free electives.

Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Free Elective 8	ANY	ANY	3 or 4	☐
Free Elective 9	ANY	ANY	3 or 4	☐
Free Elective 10	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			20-24	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in the first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in the first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in the first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements- Economics and Mathematics - Table 2

Economics Major Core Requirements	Code	Course Title	Credits	
Core 1	ECON 111	Principles of Microeconomics	4	☐
Core 2	ECON 121	Principles of Macroeconomics	4	☐
Core 3	ECON 211	Intermediate Microeconomics	4	☐
Core 4	ECON 221	Intermediate Macroeconomics	4	☐
Core 5	ECON 230	Statistics and Data Analysis	4	☐
Core 6	Econ 2301	Data Analytics Lab I	2	
Core 7	ECON 330	Econometrics	4	☐
Core 8	ECON 3301	Data Analytics Lab II	2	
Core 9	ECON 411	Advanced Microeconomics	4	☐
	OR			
	ECON 421	Advanced Macroeconomics	4	☐
Total Major Core Credit Hours			32	
Economics Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	ECON (XXX)	ANY	4	☐
Elective 2	ECON (400)	ANY	4	☐
Total Major Elective Credit Hours			8	

***Economics Major Elective Requirements:**

Major Elective Requirement 1:

- Students can enroll in ECON 200 or 300 or 400 level courses to complete the requirements.
- 200 level courses should be enrolled in the first and/or sophomore year.
- 300 level courses should be enrolled in sophomore, junior and/or senior year.
- 400 level courses should be enrolled in the junior and/or senior year.

Major Elective Requirements 2:

- Students can only enroll in ECON 400 level course.

Major Requirements- Economics and Mathematics - Table 3

Math Major Core Requirements	Code	Course Title	Credits	
Core 1	MATH 101/MATH 101H	Calculus I / Calculus I (Honours)	3	☐
Core 2	MATH 102	Calculus II	3	☐
Core 3	MATH 120/MATH 120H	Linear Algebra with Differential Equations/ Linear Algebra I (Honours)	3	☐
Core 4	MATH 230/MATH 230H	Probability / Probability (Honours)	3	☐
Core 5	MATH 204	Introduction to Formal Mathematics	3	
Core 6	MATH 205	Introduction to Analysis-I	3	☐
Total Major Core Credit Hours			18	
Math Major Elective Requirements*	Code	Course Title	Credits	
Elective 1	MATH (300/400)	ANY	3	☐
Elective 2	MATH (300/400)	ANY	3	☐
Total Major Elective Credit Hours			6	

Core Timeline – Economics and Mathematics – Table 4

Code	Course Title	Credits	Codes	Course	Credits
First Year Fall			First Year Spring		
ECON 111/ ECON 121	Principles of Microeconomics/ Principles of Macroeconomics	4	ECON 111/ ECON 121	Principles of Microeconomics/ Principles of Macroeconomics	4
Math 101	Calculus I	3	MATH 120	Linear Algebra	3
			MATH 102	Calculus II	3
Second Year Fall			Second Year Spring		

ECON 211/221	Intermediate Microeconomics/Intermediate Macroeconomics	4	ECON 230	Statistics and Data Analysis	4
MATH 204	Introduction to Formal Mathematics	3	ECON 2301	Data Analytics Lab I	2
MATH 230	Probability	3	MATH 205	Introduction to Analysis I	3
			ECON 211/221	Intermediate Microeconomics/Intermediate Macroeconomics	4
Third Year Fall			Third Year Spring		
ECON 330	Econometrics	4			
ECON 3301	Data Analytics Lab II	2			
Fourth Year Fall			Fourth Year Spring		
ECON 411/421	Advanced Micro/Macro	4			

***Math Major Elective Requirements (Table 3):**

Major Elective Requirements 1 – 2:

- Students can only enroll in MATH 300 or 400 level courses.

Senior Project in Economics and Maths (Sproj):

- SPROJ is optional.
- Students enroll for Sproj in their Senior year only.
- If the SPROJ is from Economics programme, rules of ECON apply.
- If the SPROJ is from Math programme, rules of MATH apply.

Essential Checkpoints:

- Students without an economics background may choose to enroll in either ECON 100 or directly in ECON 111/121. For Economics, Economics and Mathematics, Political Science and Economics, and Economics, Data and Computer Science majors, ECON 100 counts as a free elective as it is not a core requirement.
- MATH 100 – Pre calculus is a remedial course and counts towards the free elective requirement. It is compulsory for non-math background students to enroll in MATH 100
- It is mandatory to take ECON 2301 Data Analytics Lab I with ECON 230 Statistics and Data Analysis and ECON 3301 Data Analytics Lab II with ECON 330 Econometrics. Each lab is worth 2 credit hours. Data Analytics Labs I and II alone DO NOT count towards the economics core or elective requirement.
- Each 2-credit-hour lab for ECON 2301 and ECON 3301 will count toward the ECON major requirements.
- With the addition of ECON 2301 and ECON 3301 to ECON 230 SDA and ECON 330 Econometrics respectively, ECON 230 is no longer equivalent to MATH 231 Statistics and DISC 203 Probability and Statistics. ECON 330 Econometrics is no longer equivalent to FINN 321 Econometrics course.

- However, to facilitate the enrollment of SDSB students in Economics courses DISC 203 and FINN 321 is still considered equivalent in some ECON electives only, for more details regarding these elective courses, contact UGPCO SDSB and PCO Economics MGSJSS.
- BSc ECON/MATH students must not take MATH 231
- Students who transfer into the Economics Department or students who go on an exchange programme or take a cross-listed Economics elective across schools worth 3 credit hours and fall short of a 1 or 2 credits hours in their economics core or elective courses are allowed to take 1 or 2 credit Independent Study to fulfil graduation requirements. Those falling short of 3 or 4 credit hours can take an Economics elective course in addition to their major requirements. Moreover, students CANNOT take ECON 230 Statistics and Data Analysis and ECON 330 Econometrics on exchange programs.

Each semester different major electives are offered, and the updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for course planning and additional details.

Programme Structure- Economics, Data and Computer Science (Joint Major)

The intersection of Economics and Computer Science is transforming industries and societies globally, as data-driven decision-making becomes increasingly crucial in today's world. Recognizing the need to equip future leaders with the skills to navigate this shift, we propose a joint BSc (Hons) in Economics, Data and Computer Science (ECON-CS) program at LUMS. This interdisciplinary program aims to provide students with a robust foundation in both economic theory and computational methods, preparing them to tackle complex problems in areas such as digital markets, financial technology (fintech), artificial intelligence (AI) applications in economics, and large-scale economic data analysis.

Programme Learning objectives- Economics, Data and Computer Science Joint Major

Broad Programme Objective

Graduates of the proposed BSc (Hons) Econ, Data and CS program will enjoy a wide array of career opportunities, encompassing those traditionally available to both CS and Economics majors.

Specific Programme Objectives:

The objective of offering this program is to impart skills to:

- Demonstrate a deep understanding of basic principles and theoretical foundations across both economics and computer science.
- Critically analyze and apply theoretical knowledge to address issues at the intersection of economics and technology, while evaluating the ethical implications of data-driven policy decisions on society.
- Utilize statistical and computational methods along with econometric models to analyze big data and provide evidence-based insights into real-world challenges.
- Apply computational techniques, including optimization and algorithms, to solve complex problems in economics.
- Develop proficiency in the effective written and oral presentation of complex interdisciplinary ideas while mastering the latest techniques from both fields to create impactful research.

Entry Requirement for the Economics, Data and Computer Science Major:

A student wishing to major in Economics, Data and Computer Science must have the following, at the time of applying for this major:

- 1) A minimum CGPA of 3.3 at the end of the first year.
- 2) Successful completion of CS 100 \ CS 1001 *Computational Problem Solving \ Computational Problem Solving with Python*, ECON 111 *Principles of Microeconomics*, and ECON 121 *Principles of Macroeconomics* with a CGPA of 3.3 across the three courses

The maximum number of students accepted into this major each year is 30.

Graduation Requirements:

Kindly refer to Table 1, 2 and 3 for the complete Economics, Data and Computer Science programme structure, totaling 130 Credit Hours. Each semester a new course memo is shared with the students by the Registrar's Office. The students must consult the course memo before planning their courses for completion of the requirements.

Economics, Data and Computer Science- Table 1

University Core Requirements	Code	Course Title	Credit Hours	
Uni Core 1	SS 100	Writing and Communication	4	☐
Uni Core 2	SS 101	Islamic Studies ¹	2	☐
Uni Core 3	SS 102	Pakistan Studies	2	☐
Total University Cores Credit Hours			8	
University Distribution Requirements	Code	Course Title	Credit Hours	
Out-Group ² 1	ACF, MGS (excluding all FINN courses) SE (excluding all CS courses), EDU, LAW	ANY ³	3 or 4	☐
Out-Group 2	ACF, MGS (excluding all FINN courses) SE (excluding all CS courses), EDU, LAW	ANY	3 or 4	☐
Out-Group 3	ACF, MGS (excluding all FINN courses) SE (excluding all CS courses), EDU, LAW	ANY	3 or 4	☐
Total University Distribution Credit Hours			9-12	
Course	Code	Course Title	Credit Hour	

¹ SS 101 is mandatory for Muslims. Students from all other religions have an option to either enroll in SS 101 or a designated alternative course or 2 CHs. independent study in senior year.

² Students can choose all three Out-Groups from the same department/programme or different departments/programmes as per the details given in major wise university distribution table in the handbook.

³As per the course memo

Freshmen Tutorial	HSS 101	First Year Faculty Mentorship Tutorials	1	
Free Electives¹	Code	Course Title	Credit Hours	
Free Elective 1	ANY	ANY	3 or 4	☐
Free Elective 2	ANY	ANY	3 or 4	☐
Free Elective 3	ANY	ANY	3 or 4	☐
Free Elective 4	ANY	ANY	3 or 4	☐
Free Elective 5	ANY	ANY	3 or 4	☐
Free Elective 6	ANY	ANY	3 or 4	☐
Free Elective 7	ANY	ANY	3 or 4	☐
Total Free Electives Credit Hours			20	
School Core Thematic Bucket Requirements	Code	Course Title	Credit Hours	
Bucket 1	Arts & Humanities	ANY (to be completed in first two years)	NA	☐
Bucket 2	Social & Behavioral Sciences	ANY (to be completed in first two years)	NA	☐
Bucket 3	STEM	ANY (to be completed in first two years)	NA	☐
Bucket 4	Contemporary Debates	ANY (to be completed in sophomore year)	NA	☐
Bucket 5	Great Authors	ANY (to be completed in junior or senior year)	NA	☐
Bucket 6	Academic Writing	ANY (to be completed in junior or senior year)	NA	☐

Major Requirements- Economics, Data and Computer Science- Table 2

Major Core Requirements	Code	Course Title	Credit Hours	
Major Core 1	ECON 111	Principles of Microeconomics	4	☐
Major Core 2	ECON 121	Principles of Macroeconomics	4	☐
Major Core 3	ECON 211	Intermediate Microeconomics	4	☐
Major Core 4	ECON 221	Intermediate Macroeconomics	4	☐
Major Core 5	ECON 230	Statistics and Data Analysis	4	☐
Major Core 6	ECON 330	Econometrics	4	☐
Major Core 7	ECON 2301 & ECON 3301	Data Analytics Lab I & II	4	☐
Major Core 8	CS 100\CS 1001	Computational Problem Solving \ Computational Problem Solving with Python	3	☐

¹ Students can take as many free electives required to meet their minimum 130 CHs. requirement for graduation. The typical range of free electives CHs is between 50-55. Directed Course Work (DCW) can be taken to complete free electives.

Major Core 9	CS 200\CS 2001	Introduction to Programming \ Introduction to Programming with Python	4	☐
Major Core 10	CS 202\CS 2002	Data Structures \ Data Structures with Python	3	☐
Major Core 11	CS 210/MATH 252	Discrete Mathematics	4	☐
Major Core 12	CS 334	Principles and Techniques of Data Science	3	☐
Major Core 13	CS 331	Foundations of AI and Machine Learning	3	☐
Major Core 14	CS 310	Algorithms	3	☐
Major Core 15	MATH 101	Calculus I	3	☐
Major Core 16	MATH 120	Linear Algebra and Differential Equations	3	☐
Major Core 17	CS 2XX	Introduction to Computational Social Science	3	☐
Total Major Core Credit Hours			60	
Major Elective Requirements	Code	Course Title	Credit Hours	
Major Elective 1	ECON 4XX/5XX	ANY	4	☐
Major Elective 2	CS 3XX/4XX/5XX/6XX	ANY	3	☐
Total Major Elective Credit Hours			7	
Total Major Credit Hours			67	

***Economics/CS Major Elective Requirements:**

Major Elective Requirements 1 – 2:

- Students can only enroll in ECON 400 or 500 level courses.
- Students can only enroll in CS 400, CS 500 or CS 600 level courses.

Foundational Programming Course Routes for BSc Economics, Data, and Computer Science

The CS Department offers two exclusive routes for completing the three foundational programming core courses in the BSc Economics, Data, and Computer Science program:

- **Route A:** CS 100, CS 200, and CS 202 – taught using C/C++
- **Route B:** CS 1001, CS 2001, and CS 2021 – taught using Python
- These programming routes are academically equivalent, covering the same core concepts with equal depth and rigor. The primary distinction lies in the choice of programming language. Once a route is chosen, students must complete all three courses within that route; switching between routes is prohibited.
- Both routes support a wide range of major and free electives. For careers in data science and other allied areas in computing, students can take either route. However, some niche areas in computer science, such as computer systems engineering, generally require taking electives that include Operating Systems and Embedded Systems, which require knowledge of C/C++. Students should decide between these routes based on their natural inclinations and consultation with their advisors.
- Students enrolled in the BSc Economics, Data, and Computer Science program are not eligible to pursue a minor in either Computer Science or Economics.

Sample four-year timeline for the ECON-CS program- Table 3

Codes	Course	Credits	Codes	Course	Credits
First Year Fall			First Year Spring		
ECON 111/ ECON 121	Principles of Microeconomics/ Principles of Macroeconomics (double counts as MGSHSS Core 1)	4	ECON 111/ ECON 121	Principles of Microeconomics/ Principles of Macroeconomics	4
MATH 101	Calculus I (double counts as MGSHSS Core 2)	3	MATH 120	Linear Algebra	3
MGSHSS XXX	MGSHSS Core 3	4	CS 100\CS 1001	Computational Problem Solving \ Computational Problem Solving with Python	3
	New University Core	4	SS 100	Writing and Communication	4
Second Year Fall			Second Year Spring		
ECON 211/ECO N 221	Intermediate Microeconomics/Intermediate Macroeconomics	4	ECON 211/ECO N 221	Intermediate Microeconomics/Intermediate Macroeconomics	4
CS 210/ MATH 252	Discrete Mathematics	4	ECON 230	Statistics and Data Analysis	4
CS 2XX	Introduction to Computational Social Science (new interdisciplinary course)	3	ECON 2301	Data Analytics Lab I	2
CS200\CS 2001	Introduction to Programming \ Introduction to Programming with Python	4	CS 202\CS 2002	Data Structures \ Data Structures with Python	3
SS 101	Islamic Studies	2	SS 102	Pakistan Studies	2
			MGSHSS XXX	MGSHSS Core 4	4
Third Year Fall			Third Year Spring		
ECON 330	Econometrics	4	CS 334	Principles and Techniques of Data Science	3
ECON 3301	Data Analytics Lab II	2	MGSHSS XXX	MGSHSS Core 5	4

CS 331	Foundations of AI and Machine Learning	3		Outgroup 1	3/4
CS 310	Algorithms	3		Outgroup 2	3/4
	Free Elective	3/4			
Fourth Year Fall			Fourth Year Spring		
MGSHSS XXX	MGSHSS Core 6	4	ECON/CS XXX	ECON/CS Elective 2	3/4
ECON/CS XXX	ECON/CS Elective 1	3/4		Outgroup 3	3/4
	Free Elective	3/4		Free Elective	3/4

Note: The MGSHSS Core Buckets serve as a flexible guiding framework rather than a rigid set of courses. Most school core requirements are met through major core courses, major electives, outgroup selections, and free electives.

Senior Project in Economics, Data and Computer Science (SPROJ):

- SPROJ is optional.
- It is enrolled in Senior year only.
- If SPROJ is from Economics programme, rules of ECON apply.
- If SPROJ is from CS programme, rules of CS apply.

Essential Checkpoints:

- Students without an economics background may choose to enroll in either ECON 100 or directly in ECON 111/121. For Economics, Economics and Mathematics, Economics and Political Science majors, and Economics, Data and Computer Science Major ECON 100 counts as a free elective.
- MATH 100 – Pre calculus is a remedial course and counts towards the free elective requirement. It is compulsory for non-math background students to enroll in MATH 100
- It is mandatory to take ECON 2301 Data Analytics Lab I with ECON 230 Statistics and Data Analysis and ECON 3301 Data Analytics Lab II with ECON 330 Econometrics. Each lab is worth 2 credit hours. Data Analytics Labs I and II alone DO NOT count towards the economics core or elective requirement.
- With the addition of ECON 2301 and ECON 3301 to ECON 230 SDA and ECON 330 Econometrics respectively, ECON 230 is no longer equivalent to MATH 231 Statistics and DISC 203 Probability and Statistics. ECON 330 Econometrics is no longer equivalent to FINN 321 Econometrics course.
- However, to facilitate the enrollment of SDSB students in Economics courses DISC 203 and FINN 321 is still considered equivalent in some ECON electives only, for more details regarding these elective courses, contact UGPCO SDSB and PCO Economics MGSHSS.
- Students who transfer into the Economics Department or students who go on an exchange programme or take a cross-listed Economics elective across Schools of 3 credit hours and fall short of 1 or 2 credits in their economics core or elective courses are allowed to take 1 or 2 credit Independent Study to fulfil graduation requirements. Those falling short of 3 or 4 credit hours can take an Economics elective course in addition to their major requirements. Moreover, students CANNOT take ECON 230 Statistics and Data Analysis and ECON 330 Econometrics on exchange programs.

Each semester, different major electives are offered, and the updated list is published in the course memo. In addition, some cross-listed courses may also qualify as major electives. Students must refer to the course memo for course planning and additional details.

Guidelines for Minor in Economics

1. Students intending to complete a minor in Economics should successfully complete a minimum of 6 regular courses carrying 4 credits each (for a total of 24 credit hours) in that area.
2. Students are required to complete three (3) core courses and three (3) electives in that area. The three electives could range from 200, 300 to 400 level courses dependent on whether a student has taken the required prerequisite for an elective. Out of three electives, **at least two electives should be at 300 level or higher**. Intermediate Microeconomics, Intermediate Macroeconomics or Statistic and Data Analysis could be taken as an elective, if not taken as a core. Economics electives exclude Principles of Economics, Senior Project, Independent Study and Directed Research Project.

Economics Core Courses	
1.	ECON 111 Principles of Microeconomics
2.	ECON 121 Principles of Macroeconomics
And any one of the following	
3.	ECON 211 Intermediate Microeconomics
4.	ECON 221 Intermediate Macroeconomics
5.	ECON 230 Statistics and Data Analysis& ECON 2301 Data Analytics Lab I

Programme Coordination Office (PCO)- Economics

Programme Coordination Office serves as the nexus of support, guidance, and resources, intricately designed to cater to the diverse needs and aspirations of students embarking on their academic and professional pursuits in economics. Central to our mission is the provision of personalized support services tailored to meet the unique goals and challenges of each student. Whether it be academic advising, career counseling, or extracurricular enrichment, our team of dedicated professionals stands ready to offer individualized guidance and assistance at every stage of the student journey. Our major goal and work start when a student declares his/her major at the end of the second year. PCO provides support to individuals helping them to complete their graduation journey on time.

Programme Coordination Office (PCO) - Economics, Support for Juniors and Seniors:

PCO Economics is available for support for Juniors and Seniors admitted in majors, Economics, Economics and Mathematics and Economics and Political Sciences. Students can always reach out to the PCO with any query or concern related to academic decision making such as major change, planning for exchange semester, internship and research options, career development, DCW, Sproj guidelines, Senior year GAF verification and post LUMS pathways such as graduate school applications, or any other concern related to graduation tracking by sending an email at pco.economics@lums.edu.pk.

Graduation Audit: All seniors must verify their degree requirements before the start of senior year with PCO team. This is important for them to ensure they have not missed any course required to graduate on time.

For Appointments and Student Queries: pco.economics@lums.edu.pk

Contact Resources:

Mr. Salman Amin Lead, Programme Coordination Office (PCO) salman.amin@lums.edu.pk Contact # 0423-5602332	Ms. Fatima Kamran Program Coordination - Specialist, fatima.kamran@lums.edu.pk Contact # 0423- 5608071
Ms. Zainab Batool Program Coordination - Associate zainab.batool@lums.edu.pk Contact # 0423- 5602241	

Major Allocation Requirements – MGSHSS Students

- Students will declare major at the end of their first year.
- Completion of at least two first year core buckets (Arts and Humanities, Social and Behavioral Sciences and STEM).
- Completion of at least one course in the applied program.
- If students do not get their first or second preference, they will be assigned major according to their third or fourth preference without any intimation.

Specific Economics Department requirements

Economics: Students must have completed ECON 111 Principles of Microeconomics and ECON 121 Principles of Macroeconomics with a passing grade by the end of their first year

This is a capped major. Students meeting the above-mentioned requirement will receive the major based on CGPA cutoff.

Economics and Mathematics

- A minimum 'B' grade, both in Calculus-I/Calculus-I (Honours) and Linear Algebra with Differential Equations/ Linear Algebra I (Honours)
- Minimum CGPA 3.3

Political Science and Economics:

- i. Applications to be sorted CGPA wise (priority given to CGPA and not preference)
- ii. At least one course each in POL and ECON with a good grade¹.

Economics, Data and Computer Science:

- i. CGPA of 3.3 at the end of first year,
- ii. Successful completion of CS 100 / CS 1001 Computational Problem Solving / Computational Problem Solving with Python, ECON 111 Principles of Microeconomics, and ECON 121 Principles of Macroeconomics with a CGPA of 3.3 across the three courses.

Psychology Major

Students will declare their majors at the end of their first year. To be eligible for the Psychology major, it is mandatory to complete the introductory course, PSY 100, before declaring. This requirement applies to all students intending to pursue Psychology as their major, starting with Batch 2028 onwards. Students from earlier batches will not be eligible for this major. Also, seats in Psychology major are capped at 30.

¹ At least a B grade

Further information regarding the declaration process and timeline will be communicated by the Advising Unit.

Major Declaration and Interdepartmental Opportunities for MGS HSS Batch 2026 Onwards

Beginning from batch 2026, students will be required to apply for and declare their majors based on the department (such as HSS or Econ) they specified in their admission applications. However, depending upon the seats' availability, inter-department transfer might be possible.

Note:

Major Change Requirements

- Within HSS Department, major change will be allowed after junior year (case by case, departments can reject the application)
- Closed for Economics at the end of junior year (for example cannot move from pol/econ to econ)
- Closed for inter-departments (From HSS to Economics) at the end of junior year. But open for Economics to HSS (case by case, departments can reject the application)
- There will be an assessment of whether students are able to complete the remaining requirements within the remaining time at LUMS (maximum 6 years)

Rejection of application if the student is unable to complete the major timely.

Rejection of application if the Program Director feels they are not a good fit for the major.

Inter School Transfer Requirements

- Completion of only first-year core buckets (Arts and Humanities, Social and Behavioral Sciences and STEM).
- Completion of **at least one course** in the applied program
- Good grades¹ in courses taken in the applied program.
- Inter-school transfer is allowed at the end of first year and at the end of sophomore year. However, transfers to the Economics department are closed for first years.

In case any application is rejected, a student in **first year** can re-apply in sophomore year. Sophomores rejected may not be able to apply again.

First year students will eventually declare the same major in their sophomore year which they applied for in their first year. Submission of application to, for example Economics would not be permitted, if they applied for inter-school transfer to HSS.

Note:

All students who wish to transfer, including those with fewer credit hours, can submit applications. Students with approved applications will need to consult with the MGS HSS Academic Advisors for a degree completion path, as graduation may be delayed for such students.

¹ At least a B grade. In case grade is below, interview is necessary before finalizing a decision.

After a student's interschool application is approved, they receive an email with all the terms and conditions for transferring to MGS HSS in a specific major. However, the school will not proceed with the allocation if students do not acknowledge within the allotted period.

Economics Department Inter-school Transfer policy

- Closed in first year.
- Open in sophomore year if there are any seats left.
- Priority given to completion of mandatory course requirements and CGPA, and not student preference.

MGS HSS Undergraduate Academic Advising Unit

The Academic Advising Unit (AAU) at MGS HSS aims to promote positive outcomes in MGS HSS students by supporting them through their journey at LUMS. The goal of the unit is to ensure that all MGS HSS students, and particularly the most vulnerable, are able to access quality academic and pastoral advice. The advising unit incorporates three major nodes: faculty, students and administrators who give both academic and non-academic guidance throughout the four years. This guidance includes advice on academic goals such as degree planning, extra-curriculars, settling into college life, professional development and educational progression. To benefit from this guidance, students are expected to reach out to the unit in a timely manner and have regular meetings with relevant advisors.

Academic Advisement for all Years:

All students in MGS HSS will have the following support available for all years:

- The Staff Academic Advisors at the Academic Advising Unit (AAU):** The Staff Academic Advisors at AAU are available to all students at MGS HSS and can be reached at undergradadvising.mgshss@lums.edu.pk. They help students plan their degrees, check MGS HSS core curriculum requirements, can help resolve academic queries and provide support regarding other aspects of university life.
- Faculty Referral System:** Students of all years can email at undergradadvising.mgshss@lums.edu.pk for queries regarding education goals, careers and research, graduate school, and pastoral care. The faculty referral system devised by the AAU will connect them to relevant faculty who are best suited to provide guidance in the matter.
- Workshops and Group sessions:** Throughout the academic year workshops and group sessions will be arranged for students, related to a range of academic and non-academic topics. While all students can attend, some of these will be targeted towards certain batches.
- Website and Online Resources:** The MGS HSS website can be accessed at www.mgshssadvising.lums.edu.pk by all students to review FAQs and useful advising resources. A range of resources are also available at <http://portal.lums.edu.pk/advising> (including handouts for major exploration, career planning, and more)

Academic Advisement for Specific Student Population:

A. First years and Sophomores (Undeclared):

- Peer Ambassadors at LUMS for Social Support (PALs):** They are Junior and Senior year MGS HSS students. PALs will be assigned at the start of students' first year at LUMS and will remain in contact with students till the end of the first year. Students will be offered a mix of mandatory and voluntary meetings with the PALs and will be informed about these via email. PALs will work closely with

advising staff to provide peer-to-peer advice. Their main role is to check-in with their mentees and make sure they are aware of all resources at LUMS that can help students acclimatize with university life.

- b. **Staff Academic Advisors:** Students will have Mandatory one-on-one sessions with detailed agendas to discuss progress in the first two years. Students will be informed about mandatory meetings in advance via email. Academic Advisors will also be available for drop-in office hours. Students are expected to attend all mandatory meetings and try to voluntarily show up in office hours to discuss progress at LUMS. Staff Academic Advisors can address any kind of queries related to their academic management, enrollment, and major selection/change issues. Students can drop an email at the school's official advising email address (see below).
- c. **Faculty Mentors:** First year students will be enrolled in a one credit hour advising tutorial comprising six sessions in total spread over their first year. The course aims to support students' transition into university life by equipping them with foundational skills in ethical conduct, interpersonal communication, and personal development. It focuses on fostering academic integrity, time management, collaboration, and responsible citizenship within the LUMS community.
The course will be delivered through three 50-minute sessions over the semester, combining large group presentations and small group mentorship. Each section of 25 students will be guided by three faculty members, enabling both broad thematic discussion and individualized support by breaking into smaller groups. Topics will include sustainability, academic engagement, digital ethics, and community building. The course will be graded on attendance and participation, and all resources will be centrally provided to ensure consistency in delivery. This course represents a school-wide effort to embed personal and ethical development into the academic journey of students from their very first semester

B. Juniors and Seniors:

- a. **Faculty Advisors:** They will be assigned to students once they select and enter their majors and comprise faculty from their chosen majors. Faculty advisors act as field experts to guide their advisees on topics such as: identifying educational goals, connecting academic choices to intellectual passions, time management, studying strategies, reading strategies, academic integrity, and development of skills and attitudes that will lead to success. Students are encouraged to set up appointments and discuss their academic progress, work planning charts and any issues related to social adjustment.
- b. **Department Coordinators:** They will oversee degree requirements (university requirements, major/minor requirements, and outgroups) for students. Students that are off-track will have mandatory sessions with department coordinators if needed. It is encouraged that Juniors and Seniors should take all queries related to enrollment and degree completion to department coordinators ideally prior to enrollment cycle.
- c. **Graduating Seniors:** At this stage, students can reach out to department coordinators if they have queries related to degree completion. If they have questions regarding careers and graduate school, or want to be referred to any faculty they can email at undergradadvising.mghss@lums.edu.pk
- d. **Support for students on probation and on academic warning:** Students on probation and academic warning (please see section on Academic Standing) will have regular check-in with a dedicated Academic Advisor assigned to them. They will be contacted via email to book appointments. It is mandatory for students facing academic difficulties to meet regularly with the advisor.

Staff Advisor Details and Meetings: Students can book meetings with Staff Academic Advisors by emailing at undergradadvising.mghss@lums.edu.pk. It is considered best practice to contact/meet with the allocated advisor at least five times during a year.

Website: <https://mgshssadvising.lums.edu.pk/>

Office Location: The Academic Advising Unit Office (Academic Block ground floor) and Dean's Wing MGSHTS.

Official Email: undergradadvising.mghss@lums.edu.pk

MGSHTS Career Center:

The MGSHTS Career Center was established in September 2021 in response to growing student demand for a dedicated career office that caters specifically to the career development needs of the Humanities and Social Sciences students.

The Center offers personalized career guidance, offering support with internships, skill-building workshops, interview preparation, higher education applications and competitive exams such as the CSS. Beyond general career advice, it provides tailored, one-on-one guidance to help students navigate their individual career paths. The goal is to equip students with the tools, confidence, and clarity to successfully transition into the professional world.

Key program and services:

One-on-one Career Counseling:

To support students in exploring and planning their career paths, the Career Center offers one-on-one sessions with the career counselor during office hours, held four days a week. These personalized meetings provide guidance tailored to each student's goals and needs.

In-Class Career Development Session:

Offered every semester, these sessions are customized by year group – first and second year in the fall, third and final years in the spring. These sessions provide guidance on major selections, highlight alumni career trajectories, and offer insights into a wide range of career opportunities available to students

Alumni Mentorship:

The center connects students with alumni mentors from diverse fields to provide personalized guidance and help them develop focused career plans. These interactions help students gain industry insights, build meaningful professional relationships, and navigate their academic and career choices with greater confidence.

Career Networking Event:

The Career Networking Event is organized annually to provide students with a valuable opportunity to connect with industry leaders from a wide range of sectors. This event fosters meaningful dialogue between students and professionals, helping students explore career options, gain industry insights, practical knowledge and expand their professional networks.

Workshops and Seminars:

The MGSHTS Career Center works in close collaboration with the Career Service Office (CSO) to support students through targeted workshops and seminars. These include resume and cover letter writing, interview preparation, and tailored guidance on building careers in diverse fields such as development, education, consulting, multinational corporations (MNCs), IT, research and development, data analysis, and telecommunications. These events frequently feature alumni and industry professionals who share their experience and offer practical advice.

Senior Year Acceleration Program:

A targeted career guidance program designed specifically for graduating students to ensure they are well-prepared for life after university. The initiative focuses on helping students identify their career goals, develop essential skills, and access personalized support. Through one-on-one advising and industry connections, it aims to empower graduates to make informed and confident career decisions.

To seek any careers-related support, email the MGS HSS Careers Center to book an appointment at mgshss.careers@lums.edu.pk

Name	Email Id
Hira Javied	hira.javied@lums.edu.pk
Shah Zain Tassawur	Shah.tassawar@lums.edu.pk

Academic Support Lab (ASL)**MGS HSS Academic Tutors: Your Academic Support Partners**

Need help navigating a complex reading? Struggling to organize your thoughts for an essay? Or maybe you're looking to boost your confidence in class discussions or presentations? The MGS HSS Academic Support Lab Tutors are here to support you every step of the way. With a team of 13 experienced tutors available throughout the week, you can drop in for personalized guidance tailored to the unique demands of your courses.

Whether you're looking to sharpen your **reading strategies**, strengthen your **writing and argumentation**, improve **class participation**, polish your **presentation skills**, or master effective **note-taking**, our tutors are ready to help you build confidence and academic momentum.

Lab Access is only for undergraduates' students.

Email	academicsupportlab@lums.edu.pk hira.javied@lums.edu.pk
Location	S-4 (Next to A-8), First Floor, Out-Gate Side, Academic Block
Timings	Monday to Friday, 12:00 PM – 6:00 PM

MGS HSS In-Class Examination Rules and Regulations**1. Pre-Examination Rules**

- Students must arrive at the exam venue at least 15 minutes before the scheduled start time.
- Students who arrive late but within 30 minutes of the start of the examination will be allowed to sit the exam but will not receive extra time. Students arriving more than 30 minutes late will not be permitted to sit the examination.
- Students must bring and display their smart cards (student ID cards).
- Only essential items such as pens, pencils, erasers, and calculators (if allowed) may be brought into the exam hall.
- Prohibited items include mobile phones, smartwatches, unauthorized notes, books, and any other electronic devices.
- Students must sit according to the seating plan assigned by the instructor or invigilator.

2. During the Examination

- Students may not leave the examination room within the first 45 minutes, except in exceptional circumstances and with invigilator approval.
- To avoid disturbing others, students may not leave the examination room during the last 15 minutes, except in exceptional circumstances and with invigilator approval.
- Students may not leave and re-enter the examination room during the examination without prior permission from the invigilator. If permitted to leave, the student must be supervised by an invigilator while outside the examination room.
- Question papers and answer booklets must not be removed from the examination room during or after the examination.
- Communication with other students (talking, whispering, gesturing) is strictly prohibited.
- If a student has a question or requires assistance, they must raise their hand and wait for the invigilator.
- Students must not behave in a manner that disrupts others. A student who continues to be disruptive despite warnings may be required to leave. Their answer booklet will be collected, annotated with the time of departure, and submitted to the course instructor along with an incident report.
- Any form of cheating, including copying, using unauthorized materials, or attempting to communicate with others will result in immediate disqualification and disciplinary action.
- Students are responsible for managing their time effectively and should pay attention to time reminders announced by the invigilators.

3. End of Examination

- Students must immediately stop writing when the invigilator announces the end of the examination.
- Students must remain seated until all answer booklets have been collected, and permission is given to leave.
- Students must not discuss answers inside the examination hall to maintain discipline and fairness.

4. Violations and Penalties

- Cheating or plagiarism will result in disciplinary actions, including a failing grade or further academic penalties.
- Disruptive behavior may lead to immediate removal from the examination hall.
- Possession of unauthorized materials (notes, electronic devices, etc.) may result in zero marks for the examination and further disciplinary action.

SYED BABAR ALI SCHOOL OF SCIENCE AND ENGINEERING (SBASSE)

SBASSE offers a four-year BS degree in the following areas:

- Biology
- Chemistry
- Chemical Engineering
- Computer Science
- Economics & Mathematics
- Electrical Engineering
- Mathematics
- Physics

Graduation Requirements for SBASSE Majors:

REQUIREMENTS	CREDIT HOURS
Graduation Requirements	130-135
University Core	8 (3 courses)
University Distribution	9-12 (3 courses)
SBASSE Core	34
Major Requirements	50-76 (depending on the discipline)
Major Core required Courses	34-62
Major Electives	9-21
Free Electives	19-21 (9 for EE and 4 for CHE)

University Core and Distribution Requirements:

The University core requirements are 8 credit hours, while the Out-Group Courses entail taking 3 courses outside the SBASSE.

University Core Courses:

Kindly refer to Section 1: Undergraduate Programme Policies and Regulation

University Distribution Courses:

In-Group - The SBASSE core courses adequately meet the “four course requirements” outside your major, but within your group/area.

Out-Group - Kindly refer to Section 1: Undergraduate Programme Policies and Regulation

SBASSE Core Courses:

The SBASSE core courses are of 34 credits which are divided into the following:

Biology	04 Credit hours
Chemistry	04 Credit hours
Computing	03 Credit hours
Electrical Engineering	02 Credit hours
Mathematics	09 Credit hours
Physics	08 Credit hours
Freshmen Tutorials	01 Credit hours
SBASSE Elective*	03 Credit hours
Economics & Mathematics**	08 Credit hours

**The SBASSE Elective is an essential component of the SBASSE core curriculum. Students are required to enroll in any one 3 credit hour course offered by SBASSE in their Sophomore year or beyond. The SBASSE Elective must be outside a student's major area of study but within SBASSE. It must be a 200+ level course.*

For EE Majors PHY-204: Electricity and Magnetism will count towards their SBASSE Elective.

For PHY204: Electricity and Magnetism will no longer be an SSE (mandatory) elective for BS EE students. Instead, students can take any course as SBASSE elective as per school policy. This will be applicable to the batch of 2028 onwards

For CS and CHE Majors: (MATH 102) Calculus II will count towards their SBASSE Elective.

***Students who wish to pursue Economics & Mathematics (Joint Major), will have to take additional 08 credits in SBASSE Core.*

Major Core Requirements

For each SBASSE major these are:

Biology	48 Credit hours
Chemistry	47 Credit hours
Computer Science	42 Credit hours
Chemical Engineering	63 Credit hours
Economics & Mathematics	24/11 Credit hours
Electrical Engineering	56 Credit hours
Mathematics	39 Credit hours
Physics	43 Credit hours

Major Elective Requirements

Students pursuing different majors must enroll in elective courses offered by their department. The list of electives offered is fluid and can vary from one semester to another. Students may choose to follow a "stream" if offered by a particular department. Students must take a minimum of 9 credit hours from this category of courses; the maximum number of credit hours obtained from major elective courses varies depending on the discipline as follows:

Biology	09 Credit hours
Chemistry	09 Credit hours
Chemical Engineering	15 Credit hours
Computer Science	15 Credit hours
Economics & Mathematics	6-8 Credit hours
Electrical Engineering	16 Credit hours
Mathematics	21 Credit hours
Physics	15 Credit hours

Free Electives

In addition to the major core and major elective courses, students must enroll in courses categorized as "free electives". The free electives may be "scattered" LUMS-wide or may be "concentrated" and used towards obtaining any one of the minor degrees offered by MGSB, SBASSE or SDSB. The total number of credit hours obtained from courses that are in the "free elective" category vary depending on the discipline as follows:

Biology	20 Credit hours
Chemistry	20 Credit hours
Chemical Engineering	03 Credit hours
Computer Science	19 Credit hours
Economics & Mathematics	22-30 Credit hours
Electrical Engineering	09 Credit hours
Mathematics	16 Credit hours
Physics	18 Credit hours

Structure of SBASSE Core

Credit hour distribution across SBASSE majors:

SBASSE – Table 1

Discipline	University Requirements (University Core+ Out-Group)	SBASSE Core Requirements	Major Requirements			
			Major Core	Major Elective	Free Elective	Total
	Credit Hours					
Biology	20*	34	48	9	20	131
Chemistry	20	34	47	9	20	130
Chemical Engineering	20	34	63	15	3	132-135*
Computer Science	20	34	42	15	19	130
Electrical Engineering	20	34	56	16	9	132-135*
Mathematics	20	34	39	21	16	130
Physics	20	34	43	15	18	130
Economics & Mathematics	20	34	36	14	26	130

* Depending upon University Distribution

First Year Courses

SBASSE – Table 2

FALL SEMESTER		CREDITS
MATH 101 / MATH 101H	Calculus I/Calculus I (Honours)	3
PHY 101	Mechanics	4
CHEM 101	Principles of Chemistry	3
CS 100	Computational Problem Solving	3
SS 101	Islamic Studies	2
ENGG 100	Measurement and Design Lab	2
SSE 101	Freshmen Tutorials	0.5
TOTAL		17.5

SPRING SEMESTER		
MATH 120/MATH 120H	Linear Algebra with Differential Equation/Linear Algebra I (Honours)	3
PHY 104	Modern Physics	4
BIO 101	Introductory Biology	3
BIO 100	Biology Laboratory	1
CHEM 100	Experimental Chemistry	1
SS 100	Writing & Communication	4
SSE 101	Freshmen Tutorials	0.5
TOTAL		16.5

Sophomore Year Courses

SBASSE – Table 3

SPRING SEMESTER		CREDITS
MATH 230 / MATH 230H	Probability / Probability (Honours)	3
TOTAL		3
SSE XXX	SSE Elective (one 200+ course outside the major but within SSE)	3

Double Major Policy for SBASSE Students

After having declared a major, student may opt for a second major (space and fulfilment of other requirements permitting) *no later than the start of sixth semester at LUMS*, after due consultation with their faculty advisors. Completion of requirements of both majors does not automatically allow a student to claim a double major degree without declaring it beforehand in a timely manner.

Students need to fulfil the following requirements for a double major:

- Requirements of national and international accreditation bodies should be accounted for both majors in double major. Any course or credit-hours requirements and degree title should not contradict the official rules outlined by the respective accreditation body for that degree.
- For majors in SBASSE, the major selection requirements specified in the student handbook should be met.
- Successful completion of minimum 160 credit hours.
- Successful completion of SBASSE School Core requirements including courses and labs.
- A request for double major must be accepted by both the departments (majors).
- Students pursuing a double major need to complete the University core and University distribution requirements according to the primary declared major.
- The students are required to complete the core and elective requirements of both majors. This includes completion of major core and elective and school core and elective. In case of overlap in core and elective requirements (cross-listed courses) double counting is permitted.
- Minimum CGPA requirement for declaration of double major should be 3.00 and above. The students are required to maintain a minimum CGPA of 2.50 throughout the programme tenure.
- The maximum allowed time to complete the requirements of double major is six years from the year of admission at LUMS.
- If a student who is aspiring for double majors applies after the deadline has passed but is able to satisfy the primary and secondary department's double major coursework requirements along with a workable future course plan, an exception may be evaluated by the primary and secondary departments.

- The aforementioned policy applies to both inbound/outbound students at SBASSE.
- Students wishing to pursue a double major need to fill the double major declaration form available at the Office of the Registrar portal: <http://portal.lums.edu.pk/RegistrarOffice>.

SBASSE Safety Training Policy

The purpose of the Safety Training is to provide students with the knowledge and tools necessary to protect themselves from hazards and reduce the risks associated with their work responsibilities. All students must complete all these trainings as a prerequisite for the respective core courses.

Safety Training Structure

<i>Sr. no.</i>	<i>Title</i>	<i>Duration (mins.)</i>	<i>Pre-req. of course</i>
1	Safety Orientation	10	MATH 101/MATH 101H
2	Lab Safety Protocols	10	CHEM 100
3	Chemical Safety	10	CHEM 100
4	Biosafety	10	BIO 100
5	Electrical Safety	10	EE 100
6	Laser Safety	10	PHY100
7	Chemical Fume hood	10	CHEM 100
8	Biosafety Cabinet	10	BIO 100
9	Fire Safety	10	PHY 100
<i>90 mins. (1.5 hours)</i>			

Department of Life Sciences

BS Biology Core Courses

Biology department offers undergraduate programme in the following areas of specialization:

- Molecular and Cellular Biology
- Computational Biology

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
BIO 212	Biochemistry	3	BIO 101: Introductory Biology & CHEM 101: Principles of Chemistry
BIO 231	Computational Biology I	3	BIO 101: Introductory Biology & CS 100: Computational Problem Solving
BIO 216	Molecular Biology	3	BIO 101: Introductory Biology
BIO 221	Genetics	4	BIO 101: Introductory Biology
BIO 300	Methods in Molecular Biology	4/3	(BIO 212: Biochemistry & BIO 216: Molecular Biology) OR (BIO 216: Molecular Biology & BIO 221: Genetics) OR (BIO 212: Biochemistry & BIO 221: Genetics)
BIO 313	Cell Biology	3	BIO 216: Molecular Biology
BIO 314	Virology & Microbiology	3	BIO 216: Molecular Biology
BIO 331	Computational Biology II	3	(BIO 231: Computational Biology I) & (MATH 230/MATH 230H: Probability)
BIO 403/503	Critical Thinking, Scientific Writing, and Ethics/ Advanced Scientific Reasoning, Writing, and Ethics	3	
BIO 415/515	Developmental Biology/ Mechanisms of Development	3	BIO 221: Genetics & BIO 313: Cell Biology
CHEM 311	Chemical Thermodynamics	3	CHEM 101: Principles of Chemistry & MATH101/MATH 101H: Calculus I
CHEM 230	Organic Chemistry Lab I	2	CHEM 231: Fundamentals of Organic Chemistry
CHEM 231	Fundamentals of Organic Chemistry	3	CHEM 101: Principles of Chemistry
BIO 491 A	Senior Project	4	N/A
BIO 491 B	Senior Project	4	N/A
	TOTAL	48	

BS Biology Elective Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
BIO 318	Neuroscience	3	BIO 313: Cell Biology
BIO 432/532	Biological Networks/Network Biology	3	BIO 101: Introductory Biology & CS 100: Computational Problem Solving & (MATH 230/MATH 230H: Probability OR MATH 234: Probability with Statistics)
BIO 511	Fundamentals of Molecular Techniques	3	BIO 216: Molecular Biology OR BIO 516: Advanced Molecular Biology
BIO 5112	Plant Physiology	3	BIO 216: Molecular Biology & BIO 221: Genetics
BIO 513	Biophysical Methods/Biophysical Techniques	3	BIO 212/CHEM 251: Biochemistry
BIO 517	Molecular Mechanisms of Bacterial Pathogenesis	3	BIO 314: Virology & Microbiology
BIO 519	Immunology	3	BIO 216: Molecular Biology
BIO 521	Gene Regulation and Epigenetics	3	BIO 216: Molecular Biology OR BIO 516: Advanced Molecular Biology
BIO 522	Cancer Biology	3	BIO 313: Cell Biology BIO 216: Molecular Biology
BIO 524	Evolution	3	BIO 101: Introductory Biology
BIO 527	Plant Biotechnology	3	BIO 101: Introductory Biology & BIO 216: Molecular Biology
BIO 5311	Biostatistics	3	MATH 230/MATH 230H: Probability
BIO 534	Systems Biology	3	(BIO 216: Molecular Biology OR BIO 212/CHEM251: Biochemistry) & MATH 120/MATH 120H/MATH 121: Linear Algebra with Differential Equations/Linear Algebra I (Honours)
BIO 435/535	Computational Proteomics/Protein Informatics	3	CS100: Computational Problem Solving & (BIO231: Computational Biology I OR BIO212: Biochemistry OR BIO216: Molecular Biology)
BIO 536	Computational Genomics	3	CS 100: Computational Problem Solving & (BIO 216: Molecular Biology OR BIO 221: Genetics OR BIO 231: Computational Biology I OR CS 232: Computational Biology I) & (MATH 120/MATH 120H/MATH 121: Linear Algebra with Differential/Linear Algebra I (Honours) Equations OR MATH 220: Linear Algebra I
Any other 300+ level course offered by the Department			
TOTAL REQUIRED CREDITS		9	

Biology – Programme Structure

Graduation Requirement		131 Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores	48 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
	Major Electives	9 Credit Hours	
	Total	57 Credit Hours	
Free Electives*		20 Credit Hours	

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
CHEM 101	<u>Principles of Chemistry</u>	<u>3</u>	BIO 100	<u>Biology Laboratory</u>	<u>1</u>
PHY 101	<u>Mechanics</u>	<u>4</u>	BIO 101	<u>Introductory Biology</u>	<u>3</u>
MATH 101/MATH 101H***	<u>Calculus I</u>	<u>3</u>	CHEM 100	<u>Experimental Chemistry</u>	<u>1</u>
CS 100	<u>Computational Problem Solving</u>	<u>3</u>	PHY 104	<u>Modern Physics</u>	<u>4</u>
ENGG 100	<u>Measurement and Design Lab</u>	<u>2</u>	MATH 120/MATH 120H***/MATH 121	<u>Linear Algebra with Differential Equations/Linear Algebra I (Honours)</u>	<u>3</u>
SS 101	<u>Islamic Studies</u>	<u>2</u>	SS 100	<u>Writing & Communication</u>	<u>4</u>
SSE 101	<u>Freshmen Tutorials</u>	<u>0.5</u>	SSE 101	<u>Freshmen Tutorials</u>	<u>0.5</u>
	Total	17.5		Total	16.5
Sophomore Fall			Sophomore Spring		
BIO 216	Molecular Biology	3	BIO 212	Biochemistry	3
BIO 221	Genetics	4	BIO 231	Computational Biology I	3
CHEM 231	Fundamentals of Organic Chemistry	3	CHEM 230	Organic Chemistry Lab I	2
SS 102	Pakistan Studies	2	MATH 230/ 230H***	<u>Probability</u>	<u>3</u>
	University Distribution	3-4		<u>SBASSE Elective**</u>	<u>3</u>
				University Distribution	4
	Total	15-16		Total	18
Junior Fall			Junior Spring		
BIO 300/500	Methods in Molecular Biology Laboratory	4	BIO 415/515	Developmental Biology/Mechanisms of Development	4
BIO 313	Cell Biology	3	BIO 314	Virology and Microbiology	3
BIO 331	Computational Biology II	3	CHEM 311	Chemical Thermodynamics	3
	University Distribution	3-4	BIO XXX	<i>Major Elective</i>	3
	<i>Free Elective</i>	3-4		<i>Free Elective</i>	3-4
	Total	16-18		Total	16-17
Senior Fall			Senior Spring		
BIO 403	Critical thinking, Scientific Writing and Ethics	3	BIO 491B	Senior Project B	4
BIO 491A	Senior Project A	4	BIO XXX	<i>Major Elective</i>	3
BIO XXX	<i>Major Elective</i>	3		<i>Free Elective</i>	3-4
	<i>Free Elective</i>	3-4		<i>Free Elective</i>	3-4
	<i>Free Elective</i>	3-4		<i>Free Elective</i>	3-4
	Total	14-16		Total	14-16

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**The SBASSE Elective requirement is one course of 3 credits to be taken outside the major, but within SBASSE, in Sophomore year or beyond.

***Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	Major Core	<i>Major Elective</i>	<i>Free Elective</i>
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

Department of Chemistry and Chemical Engineering

Chemistry Core Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
CHEM 231	Fundamentals of Organic Chemistry	3	CHEM 101: Principles of Chemistry
CHEM 230	Organic Chemistry Lab I	2	CHEM 231: Fundamentals of Organic Chemistry
CHEM 233	Molecular Spectroscopy	3	CHEM 231: Fundamentals of Organic Chemistry
CHEM 251	Biochemistry	3	CHEM 101: Principles of Chemistry & BIO 101: Introductory Biology
CHEM 221	Molecular Symmetry I	3	CHEM 101: Principles of Chemistry
CHEM 313	Special Topics in Physical Chemistry	3	CHEM 101: Principles of Chemistry
CHEM 314	Quantum Chemistry	3	CHEM 101: Principles of Chemistry & MATH 101/MATH 101H: Calculus I
CHEM 324	Inorganic Chemistry I	3	CHEM 101: Principles of Chemistry
CHEM 320	Inorganic Chemistry Lab	2	CHEM 324: Inorganic Chemistry I
CHEM 332	Chemistry of the Organic Functional Groups	3	CHEM 231: Fundamentals of Organic Chemistry
CHEM 311	Chemical Thermodynamics	3	CHEM 101: Principles of Chemistry & MATH 101/MATH 101H: Calculus I
CHEM 334	Advanced Organic Chemistry	3	CHEM 332: Chemistry of the Organic Functional Groups
CHEM 342	Analytical Chemistry I	3	CHEM 101: Principles of Chemistry
CHEM 410	Physical Chemistry Lab	2	CHEM 311: Chemical Thermodynamics
CHEM 430	Organic Chemistry Lab II	2	CHEM 230: Organic Chemistry Lab I & CHEM 332: Chemistry of the Organic Functional Groups
CHEM 491 A	Senior Project	3	N/A
CHEM 491 B	Senior Project	3	N/A
	TOTAL	47	

Chemistry Elective Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
BIO 216	Molecular Biology	3	BIO 101: Introductory Biology
CS 200	Introduction to Programming	4	Sophomore Standing
CS 202	Data Structures	3	CS 200: Introduction to Programming
MATH 210	Introduction to Differential Equation	3	MATH 101/MATH 101H: Calculus I
PHY 212	Quantum Mechanics I	3	PHY 104: Modern Physics
CHEM 218	Environmental Chemistry	3	CHEM 101: Principles of Chemistry
PHY 204	Electricity and Magnetism	3	PHY101: Mechanics
CHEM 352	Introduction to Drug Discovery & Development	3	CHEM 101: Principles of Chemistry

BIO 313	Cell Biology	3	BIO 101: Introductory Biology & BIO 216: Molecular Biology
CHE 260	Principles of Chemical Engineering	3	CHEM 101: Principles of Chemistry
CHE 313	Material Science and Engineering	3	CHEM 101: Principles of Chemistry
CHE XXX	Chemical Engineering Thermodynamics	3	CHE 210 OR CHEM 311
CHEM 424	Organo-Transition Metal Chemistry and Catalysis	3	CHEM 221: Molecular Symmetry I
CHEM 522	Inorganic Materials Chemistry	3	CHEM 324: Inorganic Chemistry I
CHEM 523	Organo-Transition Metal Chemistry	3	CHEM 324: Inorganic Chemistry I
CHEM 515	Polymer Science and Technology	3	CHEM 101
CHEM 534	Retrosynthesis	3	CHEM 334: Advanced Organic Chemistry
CHEM 433	Nanomedicine	3	CHEM 101: Principles of Chemistry
MATH 102	Calculus II	3	MATH 101/MATH 101H: Calculus I
CHEM 432	Bio-Organic Chemistry	3	CHEM 231: Fundamentals of Organic Chemistry
PHY 312	Quantum Mechanics II	3	PHY 212: Quantum Mechanics I
CHEM 497	Directed Research	1-2	
TOTAL REQUIRED CREDITS		9	

Chemistry – Programme Structure

Graduation Requirement		130 Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores	47 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
	Major Electives	9 Credit Hours	
	Total	56 Credit Hours	
Free Electives*		20 Credit Hours	

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
CHEM 101	Principles of Chemistry	3	BIO 100	Biology Laboratory	1
PHY 101	Mechanics	4	BIO 101	Introductory Biology	3
MATH 101/MATH 101H***	Calculus I	3	CHEM 100	Experimental Chemistry	1
CS 100	Computational Problem Solving	3	PHY 104	Modern Physics	4
ENGG 100	Measurement and Design Lab	2	MATH 120/MATH 120H/MATH 121***	Linear Algebra with Differential Equations / Linear Algebra I (Honours)	3
			SS 100	Writing & Communication	4
			SSE 101	Freshmen Tutorials	0.5
SS 101	Islamic Studies	2			
SSE 101	Freshmen Tutorials	0.5			
Total		17.5	Total		16.5
Sophomore Fall			Sophomore Spring		
CHEM 231	Fundamental of Organic Chemistry	3	CHEM 233	Molecular Spectroscopy	3
CHEM 221	Molecular Symmetry – I	3	CHEM 251	Biochemistry	3
	SBASSE Elective**	3	CHEM 230	Organic Chemistry Lab – I	2
	University Distribution	3-4	MATH 230/MATH 230H***	Probability	3
SS 102	Pakistan Studies	2		University Distribution	3-4
				<i>Free Elective</i>	3
Total		14-15	Total		17-18
Junior Fall			Junior Spring		
CHEM 314	Quantum Chemistry	3	CHEM 313	Special Topics in Physical Chemistry	3
CHEM 324	Inorganic Chemistry I	3	CHEM 320	Inorganic Chemistry Lab	2
CHEM 332	Chemistry of Organic Functional Groups	3	CHEM 311	Chemical Thermodynamics	3
CHEM 342	Analytical Chemistry I	3	CHEM 334	Advanced Organic Chemistry	3
	University Distribution	3-4	CHEM XXX	Major Elective	3
				<i>Free Elective</i>	3-4
Total		15-16	Total		17-18
Senior Fall			Senior Spring		
CHEM 430	Organic Chemistry Lab II	2	CHEM 491B	Senior Project B	3
CHEM 491A	Senior Project A	3	CHEM XXX	Major Elective	3
CHEM XXX	Major Elective	3	CHEM XXX	Major Elective	3
CHEM 410	Physical Chemistry Lab	2		<i>Free Elective</i>	3-4
	<i>Free Elective</i>	3-4		<i>Free Elective</i>	3-4
Total		16-18	Total		14-16

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**The SBASSE Elective requirement is one course of 3 credits to be taken outside the major, but within SBASSE, in Sophomore year or beyond.

*** Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	Major Core	Major Elective	<i>Free Elective</i>
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

BS Chemical Engineering Programme

Programme Introduction

The BS Chemical Engineering Programme was launched in 2017 with the objective of creating enhanced synergy between natural sciences and engineering fundamentals and resonates with the SBASSE interdisciplinary and no-boundaries concept. The programme covers the traditional basics of Chemical Engineering with an emphasis on underlying scientific principles and modern, innovative engineering practices. Students develop core expertise in natural sciences, engineering thermodynamics, transport processes, chemical kinetics, and separation processes, creating a powerful and widely applicable combination of molecular knowledge and system-level problem solving skills. To cope with complex, real-world problems, we focus strongly on developing the computational and analytic skills of students.

Vision of the BS Chemical Engineering Programme

The Chemical Engineering programme aspires to become an internationally acclaimed science-based, research-enhanced programme that serves society through world-class interdisciplinary education and research.

Mission of the BS Chemical Engineering Programme

The mission of the Chemical Engineering Programme at the Department of Chemistry and Chemical Engineering, LUMS is:

- To educate practicing engineers, innovation drivers, and future leaders with robust understanding of physical, chemical, biological, mathematical and engineering principles for careers in chemical engineering and related fields in industrial, academic, non-profit and government organizations.
- To provide opportunities for cutting-edge undergraduate research experiences that advance engineering knowledge, with a strong emphasis on interdisciplinary research spanning across physics, chemistry, biology and materials science, that addresses key challenges that are impacting economy and society.
- To inspire students to work for the benefit of society at large by promoting the scientific and technological foundation of debates on various national and global challenges facing society.

Programme Education Objectives (PEOs) of the BS Chemical Engineering

The educational objectives of the Chemical Engineering Programme are to produce graduates who:

1. Effectively utilize the LUMS education in science and engineering principles to meet the needs of local and global society through science-based problem solving and strong communication skills.
2. Recognize the importance of and effectively pursue lifelong learning through continued self-improvement and learning from others, particularly in fields that are rapidly evolving.
3. Are equipped to successfully pursue postgraduate education in chemical engineering and other related fields, including entrepreneurship.
4. Are aware of the importance of social, environmental, economic and safety aspects of their endeavors, and who will contribute to the community as responsible citizens and to the field of chemical sciences with high professional standards, innovative and critical thinking, ethical decision-making, and teamwork.

Programme Learning Outcomes (PLOs) of the BS Chemical Engineering Programme

The Chemical Engineering Programme at LUMS consists of twelve Programme Learning Outcomes (PLOs), adapted from the Pakistan Engineering Council (PEC) accreditation manual.

PLO1-Engineering Knowledge: An ability to apply knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PLO2-Problem Analysis: An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PLO3-Design / Development of Solutions: An ability to design solutions for complex engineering problems and design systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PLO4-Investigation: An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis, and interpretation of experimental data, and synthesis of the information to derive valid conclusions.

PLO5-Modern Tool Usage: An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.

PLO6-The Engineer and Society: An ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.

PLO7-Environment and Sustainability: An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

PLO8-Ethics: An ability to apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

PLO9-Individual and Teamwork: An ability to work effectively, as an individual or in a team, in multifaceted and /or multidisciplinary settings.

PLO10-Communication: An ability to communicate effectively, orally as well as in writing, about complex engineering activities within both the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PLO11-Project Management: An ability to demonstrate management skills and apply engineering principles to one's own work as a member and/or leader in a team, and to manage projects in a multidisciplinary environment.

PLO12-Lifelong Learning: An ability to recognize the importance of and pursue lifelong learning in the broader context of innovation and technological developments

Chemical Engineering Core Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
PHY 204	Electricity and Magnetism	3	PHY101: Mechanics
CHE 210	Physical Chemistry	3	CHEM 101: Principles of Chemistry
CHE 260	Principles of Chemical Engineering	3	CHEM 101: Principles of Chemistry
CHEM 231	Fundamentals of Organic Chemistry	3	CHEM 101: Principles of Chemistry
CHE 280	Math Methods in Chemical Engineering I	3	MATH 101/MATH 101H & MATH 120/MATH 120H: Calculus I & Linear Algebra with Differential Equations/Linear Algebra I
CHE 262	Particle Science and Engineering	3	CHE 273 Fluid Mechanics
CHE 200A	Chemical Engineering Lab-I	1	CHEM 101: Principles of Chemistry
CHE 230	Chemical Engineering Thermodynamics	3	CHE 210: Physical Chemistry
CHE 273	Fluid Mechanics	3	CHE 260: Principles of Chemical Engineering
CHE 352	Heat and Mass Transfer	3	CHE 273 Fluid Mechanics
CHE 390	Transport Phenomena	3	CHE 352 Heat and Mass Transfer
CHE 330	Math Methods in Chemical Engineering II	3	CHE 280: Math Methods in Chemical Engineering I
CHE 320	Separation Processes	3	CHE 230: Chemical Engineering Thermodynamics
CHE 360	Chemical Kinetics and Reaction Engineering	3	CHE 230: Chemical Engineering Thermodynamics
CHE 315	Chemical Process Simulation	3	CHE260: Principles of Chemical Engineering
CHE 300A	Chemical Engineering Lab – II	1	CHE 273 Fluid Mechanics & CHE 230 Chemical Engineering Thermodynamics
CHE 300B	Chemical Engineering Lab – III	1	CHE 320 Separation Processes & CHE 352 Heat and Mass Transfer
CHE 300C	Chemical Engineering Lab – IV	1	CHE 262 Particle Science and Engineering
CHE 430	Chemical Process Control	3	CHE 280: Math Methods in Chemical Engineering I
CHE 440	Chemical Process Design-I	3	CHE 352 Heat and Mass Transfer CHE 320: Separation Processes & CHE 360: Chemical Kinetics and Reaction Engineering
CHE 480	Chemical Process Design-II	3	CHE 440 Chemical Process Design-I
CHE 422	Chemical Process Safety	3	CHE 273 Fluid Mechanics
CHE 401A	Chemical Engineering Lab – V	1	CHE 430 Chemical Process Control & CHE 315 Chemical Process Simulation

CHE 401B	Chemical Engineering Lab – VI	1	CHE 360 Chemical Kinetics and Reaction Engineering & CHE 390 Transport Phenomenon
CHE 491A	Senior Project	3	N/A
	TOTAL	63	

Chemical Engineering Elective Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
CHE 316	Renewable Energy and Environmental Sustainability	3	MATH 101, Calculus 1
CHE 252	Chemical Process Technology	3	CHEM 101: Principles of Chemistry
CHE 272	Fundamentals of Air Pollution	3	N/A
CHE 314	Engineering Economics	3	N/A
CHE 3XX	Energy & Fuels	3	CHEM 101: Principles of Chemistry
CHE 313	Material Science and Engineering	3	CHEM 101: Principles of Chemistry
CHE 312	Fundamentals of Environmental Engineering	3	CHEM 101: Principles of Chemistry
CHE 412	Membrane Science and Engineering	3	ChE 320 Separation Processes
CHE 4XX	Process Optimization	3	MATH 120 Linear Algebra with Differential Equations
CHE 3XX	Introduction to Petroleum Engineering	3	CHE 260 Principles of Chemical Engineering
CHE 4XX	Surface Analysis	3	CHE 313 Material Science and Engineering
CHE 4XX	Colloidal Science	3	CHE 262 Particle Science and Engineering
CHE 4XX	Solid Waste Disposal	3	CHE 312 Fundamentals of Environmental Engineering
CHE 4XX	Biochemical Engineering	3	
TOTAL REQUIRED CREDITS		15	

** This is not a complete list of elective courses; more courses can be added to the list as per requirement.

Chemical Engineering – Programme Structure

Graduation Requirement		132-135* Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores	63 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
	Major Electives	15 Credit Hours	
	Total	78 Credit Hours	
Free Electives*		3 Credit Hours	

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
CHEM 101	Principles of Chemistry	3	BIO 100	Biology Laboratory	1
PHY 101	Mechanics	4	BIO 101	Introductory Biology	3
MATH 101/MATH 101H***	Calculus I	3	CHEM 100	Experimental Chemistry	1
CS 100	Computational Problem Solving	3	PHY 104	Modern Physics	4
ENG 100	Measurement and Design Lab	2	MATH 120/MATH 120H/MATH 121***	Linear Algebra with Differential Equations / Linear Algebra I (Honours)	3
SS 101	Islamic Studies	2	SS 100	Writing & Communication	4
SSE 101	Freshmen Tutorials	0.5	SSE 101	Freshmen Tutorials	0.5
Total		17.5	Total		16.5
Sophomore Fall			Sophomore Spring		
CHEM 231	Fundamentals of Organic Chemistry	3	CHE 230	Chemical Engineering Thermodynamics	3
CHE 280	Math Methods in Chemical Engineering I	3	CHE 273	Fluid Mechanics	3
MATH 102	SBASSE Elective** (Calculus II)	3	MATH 230/MATH 230H***	Probability	3
CHE 260	Principles of Chemical Engineering	3	CHE 330	Math Methods in Chemical Engineering II	3
CHE 210	Physical Chemistry	3	CHE 200A	Chemical Engineering Lab – I	1
SS 102	Pakistan Studies	2	CHE 262	Particle Science and Engineering	3
Total		17	Total		16
Junior Fall			Junior Spring		
CHE 352	Heat and Mass Transfer	3	CHE 390	Transport Phenomena	3
PHY 204	Electricity and Magnetism	3	CHE 360	Chemical Kinetics and Reaction Engineering	3
CHE 320	Separation Processes	3	CHE 315	Chemical Process Simulation	3
CHE 3XX	Major Elective – I	3	CHE 430	Chemical Process Control	3
CHE 300A	Chemical Engineering Lab– II	1	CHE 3XX	Major Elective – II	1
	University Distribution	3-4	CHE 300B	Chemical Engineering Lab– III	1
Total		16-17	Total		17
Senior Fall			Senior Spring		
CHE 440	Chemical Process Design I	3	CHE 480	Chemical Process Design II	3
CHE 422	Chemical Process Safety	3	CHE 4XX	Major Elective – IV	3
CHE 4XX	Major Elective – III	3	CHE 4XX	Major Elective – V	3
CHE 401A	Chemical Engineering Lab – V	1		Free Elective	3
CHE 401B	Chemical Engineering Lab –VI	1		University Distribution	3-4
CHE 491A	Senior Project A	3			
	University Distribution	3-4			
Total		17-18	Total		15-16

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**The SBASSE Elective requirement is one course of 3 credits to be taken outside the major, but within SBASSE, in Sophomore year or beyond.

***Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	Major Core	Major Elective	Free Elective
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

Department of Computer Science

Computer Science Core Courses

Computer Science – Table 1

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
CS 200	Introduction to Programming	4	CS 100
CS 202	Data Structures	3	CS 200
CS 210	Discrete Mathematics	4	MATH 101/MATH 101H
CS 225	Fundamentals of Computer Systems	4	CS 100
CS 300	Advanced Programming	3	CS 200
CS 310	Algorithms	3	CS202 and (CS 210 OR MATH 252)
CS 331	Foundations of AI and Machine Learning	3	CS 100 AND CS 200/EE 201
CS 340	Databases	3	CS 202
CS 360	Software Engineering	3	CS 200
CS 370	Operating Systems	3	CS 202
CS 382	Network-Centric Computing	3	CS 200
CS 491A	Senior Project	3	N/A
CS 491B	Senior Project	3	N/A
TOTAL REQUIRED CREDITS		42	

Computer Science Elective Courses

This is a sample of electives; students can take any elective offered by the Computer Science Department.

Computer Science – Table 2

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
CS/EE 3812	Introduction to blockchain: Technology and Application	3	CS 200
CS 315	Theory of Automata	3	CS 210
CS/EE 220	Digital Logic Circuits	3	N/A
CS/EE 220L	Digital Logic Circuits Lab	1	N/A
CS 436	Computer Vision Fundamentals	3	CS 200 & MATH 120/MATH 120H/MATH 121
CS 452	Computer Graphics	3	CS 200 & MATH 120/MATH 120H/MATH 121
CS 471	Computer Networks: Principles & Practices	3	CS 200
CS 432	Introduction to Data Mining	3	CS 202
CS 473	Network Security	3	CS 471 OR EE 471 OR CS573 OR CS382
CS 535	Machine Learning	3	CS 200/ EE 201 AND MATH 120 AND (MATH230 OR DISC203 OR CS501 OR ECON230) OR GRAD
CS 585	Service Oriented Computing	3	MS AND Graduate
CS 501	Applied Probability	3	MATH 101/MATH 101H
CS 437	Deep Learning	3	CS 200 & MATH120/MATH 120H/MATH 121
CS 466	Human Computer Interaction	3	N/A

CS 5620	Information and Communication Technology for Development	3	N/A
CS 582	Distributed Systems	3	CS 382 or CS 471
CS 510	Design & Analysis of Algorithms	3	CS 210 & CS 202
CS 532	Intelligent Computing	3	N/A
CS 570	Advanced Operating Systems	3	CS 370
CS 678	Topics in Internet Research	3	Senior + Junior + MS + Graduate
CS 334	Principles and Techniques of Data Science	3	CS 100 & MATH 120/MATH 120H/MATH 121
CS 4713	Introduction to the Internet: Protocols and Architecture	3	CS 200
CS 6312	Privacy in the Digital Age	1	N/A
CS 5312	Big Data Analytics	3	CS 202 or CS 210 or CS 310
CS 5316	Natural Language Processing	3	CS 300 & MATH 230/MATH 230H
CS 6712	Topics in Internet Measurement	3	CS 382 or CS 471
CS 677	Internet of things	3	MS AND Graduate
CS 4714	Introduction to the Internet of Things	3	CS 382 or CS 471
CS 682	Topics in Computer and Network Security	3	CS 473
CS 5615	Introduction to Programme Analysis	3	CS 300
CS 5616	Programming Languages	3	CS 300
CS 666	Topics in Interactive Computing	3	CS 466
**CS 4602/ CS 667	Coding for Careers	3	
TOTAL REQUIRED CREDITS		15	

* At-most 4 credit hours of CS 200 level course will count towards CS major elective

** CS students are strongly recommended limiting pass/fail credits to 6 hours in other courses in order to enroll in CS4602 Coding for Careers.

Computer Science – Programme Structure

Graduation Requirement		130 Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores	42 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
	Major Electives	15 Credit Hours	
	Total	57 Credit Hours	
Free Electives*		19 Credit Hours	

Sample Four Year Plan

Freshman Fall			Freshman Spring		
Code	Title	Credits	Code	Title	Credits
<u>CHEM 101</u>	<u>Principles of Chemistry</u>	<u>3</u>	<u>BIO 100</u>	<u>Biology Laboratory</u>	<u>1</u>
<u>PHY 101</u>	<u>Mechanics</u>	<u>4</u>	<u>BIO 101</u>	<u>Introductory Biology</u>	<u>3</u>
<u>MATH 101/MATH 101H****</u>	<u>Calculus I</u>	<u>3</u>	<u>CHEM 100</u>	<u>Experimental Chemistry</u>	<u>1</u>
<u>CS 100</u>	<u>Computational Problem Solving</u>	<u>3</u>	<u>PHY 104</u>	<u>Modern Physics</u>	<u>4</u>
<u>ENGG 100</u>	<u>Measurement and Design Lab</u>	<u>2</u>	<u>MATH 120/MATH 120H/MATH 121****</u>	<u>Linear Algebra with Differential Equations/ Linear Algebra I (Honours)</u>	<u>3</u>
			<u>CS 200#</u>	<u>Introduction to Programming</u>	<u>4</u>
<u>SS 101</u>	<u>Islamic Studies</u>	<u>2</u>			
<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>	<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>
Total		17.5	Total		16.5
Sophomore Fall			Sophomore Spring		
Code	Title	Credits	Code	Title	Credits
<u>CS 331</u>	<u>Foundations of AI and Machine Learning</u>	<u>3</u>	<u>CS 310</u>	<u>Algorithms</u>	<u>3</u>
<u>CS 210</u>	<u>Discrete Mathematics</u>	<u>4</u>	<u>CS 300</u>	<u>Advanced Programming</u>	<u>3</u>
<u>CS 225</u>	<u>Fundamentals of Computer Systems</u>	<u>4</u>	<u>MATH 230/MATH 230H****</u>	<u>Probability</u>	<u>3</u>
<u>CS 202</u>	<u>Data Structures</u>	<u>3</u>	<u>CS 382***</u>	<u>Network Centric Computing</u>	<u>3</u>
<u>MATH 102</u>	<u>Calculus II (SBASSE Elective) **</u>	<u>3</u>	<u>CS XXX</u>	<u>Major Elective (300+ level)</u>	<u>3</u>
<u>SS 102</u>	<u>Pakistan Studies</u>	<u>2</u>	<u>SS 100</u>	<u>Writing & Communication</u>	<u>4</u>
Total		19	Total		19
Junior Fall			Junior Spring		
Code	Title	Credits	Code	Title	Credits
<u>CS 370</u>	<u>Operating Systems</u>	<u>3</u>	<u>CS 360</u>	<u>Software Engineering</u>	<u>3</u>
<u>CS 340</u>	<u>Database</u>	<u>3</u>	<u>CS XXX</u>	<u>Major Elective (300+ level)</u>	<u>3</u>
<u>CS XXX</u>	<u>Major Elective (300+ level)</u>	<u>3</u>	<u>CS XXX</u>	<u>Major Elective (300+ level)</u>	<u>3</u>
<u>CS XXX</u>	<u>Major Elective (300+ level)</u>	<u>3</u>		<u>University Distribution</u>	<u>3</u>
	<u>University Distribution</u>	<u>3-4</u>		<u>University Distribution</u>	<u>3-4</u>
Total		15-16	Total		15-16
Senior Fall			Senior Spring		
Code	Title	Credits	Code	Title	Credits
<u>CS 491A</u>	<u>Senior Project A</u>	<u>3</u>	<u>CS 491B</u>	<u>Senior Project B</u>	<u>3</u>
	<u>Free Elective</u>	<u>3</u>		<u>Free Elective</u>	<u>3</u>
	<u>Free Elective</u>	<u>3</u>		<u>Free Elective</u>	<u>3-4</u>
	<u>Free Elective</u>	<u>3-4</u>		<u>Free Elective</u>	<u>3</u>
	<u>Free Elective</u>	<u>3</u>		<u>Free Elective</u>	<u>3</u>
Total		15-16	Total		15-16

Freshman students intending to declare computer science as their major are strongly advised to enroll in the CS200 (Introduction to Programming) course during their spring semester

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**The SBASSE Elective requirement for CS majors is fulfilled by (MATH 102) Calculus II.

***CS 471 and CS 473 satisfy the requirement to take CS 382.

****Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	<u>University Distribution</u>	<u>SBASSE Core</u>	<u>Major Core</u>	<u>Major Elective</u>	<u>Free Elective</u>
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

Department of Electrical Engineering

BS Electrical Engineering

The curriculum of the Electrical Engineering programme has been designed keeping in mind local requirements as well as curriculum taught in leading international institutions. Students will be provided rigorous training to appreciate diverse fields from energy and power systems to IT systems processing and communicating information. The programme is based on the theme of 'life data and sustainability' and employs modern algorithms, tools, data and devices to solve challenges facing society.'

Program Educational Objectives (PEOs)

The Program Educational Objectives of the BS EE program is that its graduates transform into professionals that:

- Excel in the profession by demonstrating high quality engineering knowledge and skills
- Show continuous professional development through effective communication, team-work and life-long-learning
- Depict professional integrity and compliance with social and ethical responsibilities.

Program Learning Outcomes (PLOs)

In compliance with manual of accreditation of PEC, the EE BS program of SBASSE strives to impart following ability and skills (graduate attributes) in its students with respect to Electrical Engineering:

GA1-Engineering Knowledge: An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems

GA2-Problem Analysis: An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

GA3-Design/Development of Solutions: An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

GA4-Investigation: An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.

GA5-Modern Tool Usage: An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.

GA6-The Engineer and Society: An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.

GA7-Environment and Sustainability: An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for, sustainable development.

GA8-Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

GA9-Individual and Teamwork: An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.

GA10-Communication: An ability to communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

GA11-Project Management: An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.

GA12- Lifelong Learning: An ability to recognize the need for, and have the preparation and ability to engage in, independent and life-long learning in the broadest context of technological change.

Electrical Engineering Core Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
EE 201	Introduction to Programming	4	Sophomore Standing
EE 202	Data Structures	3	CS 200: Introduction to Programming
EE 220	Digital Logic Circuits	3	Nil
EE 220L	Digital Logic Circuits Lab	1	Nil
EE 240	Circuits I	3	Math 101/MATH 101H: Calculus I
EE 241L	Introductory Circuits Lab	2	EE 240 : Circuits I
EE 242	Circuits II	3	EE 240: Circuits I
EE 203	Engineering Models	3	NA/Co-Req EE 201/ Anti-Req Math 210
EE 310	Signals and Systems	3	MATH 102: Calculus II
EE 324	Microcontroller and Interfacing	2	EE 220: Digital Logic Circuits
EE 324L	Microcontroller and Interfacing Lab	1	EE 220: Digital Logic Circuits
EE 330	Electromagnetic Fields and Waves	3	PHY 204: Electricity and Magnetism & Math 102: Calculus II
EE 340	Devices and Electronics	3	EE 240: Circuits I & EE 242: Circuits II
EE 340L	Devices and Electronics Lab	1	EE 240: Circuits I & EE 242: Circuits II
EE 356	Electrical Machines and Power Systems	3	Pre-requisites: EE240 Circuits 1 AND PHY102: Electricity and Magnetism Co-Requisite: EE242 Circuits 2 AND EE356L: Electrical Machines and Power Systems Lab
EE 356L	Electrical Machines and Power Systems lab	1	Pre-requisites: EE240 Circuits 1 AND PHY102: Electricity and Magnetism Co-Requisite: EE242 Circuits 2 AND EE356: Electrical Machines and Power Systems
EE 361	Feedback Control Systems	3	EE 310: Signals and Systems
EE 361L	Feedback Control Systems Lab	1	EE 310: Signals and Systems
EE 380	Communication Systems	3	EE 310: Signals and Systems
EE 380L	Communication Systems Lab	1	EE 310: Signals and Systems
EE 491A	Senior Project	3	Senior Standing

EE 491B	Senior Project	3	Senior Standing
	TOTAL	56	

Electrical Engineering Elective Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
COMMUNICATIONS, SIGNALS AND CONTROL			
EE 411	Digital Signal Processing	4	EE 310: Signals & Systems
EE 412	Principles of Digital Audio and Video	3	CS 200: Introduction to Programming & (Junior EE OR CS, Senior EE OR CS, Graduate EE OR CS)
EE 414	Deep Learning	3	CS200: Introduction to Programming and MATH 120/MATH 120H/MATH 121: Linear Algebra with differential equations / Linear Algebra I (Honours)
EE 471	Computer Networks	4	CS 200: Introduction to Programming
EE 483	Network Security	3	EE471: Computer Networks OR CS382: Network Centric Computing
EE 511	Advanced Digital Signal Processing	3	EE 310: Signals & Systems
EE 512	Digital Image Processing	3	EE 310: Signal & Systems OR EE 412: Principles of Digital Audio and Video OR EE 411: Digital Signal Processing
EE 513	Computer Vision Fundamentals	3	CS200: Introduction to Programming and MATH 120/MATH 120H/MATH 121: Linear Algebra with differential equations// Linear Algebra I (Honours)
EE 514	Machine Learning	3	MATH 230/MATH 230H: Probability
EE 515	Applied Probability	3	MATH 101/MATH 101H: Calculus 1
EE 5312	Radar System	3	EE 330/PHY 305: Electromagnetic Fields & Waves
EE 560	Linear System Theory	3	EE 380: Communication Systems
EE 561	Digital Control Systems	3	EE 361: Feedback Control Systems
EE 562	Robot Motion Planning	3	EE 361: Feedback Control Systems OR CS 310: Algorithms
EE 563	Convex Optimization	3	MATH 120/MATH 120H/MATH 121: Linear Algebra with Differential Equations// Linear Algebra I (Honours)
EE 564	Stochastic Systems	3	MATH 230/MATH 230H: Probability
EE 565	Mobile Robotics	3	EE361: Feedback Control Systems
EE 567	Multi-agent Systems	3	At least Junior Standing.
EE 569	Dynamic Programming and Reinforcement Learning	3	At least Junior Standing.
EE 570	Digital Communication Principles	3	EE 380: Communication Systems
EE 572	Wireless Communications	3	EE 380: Communication Systems
EE 573	Image and Video Coding	3	EE 310: Signal & Systems OR Graduate level Standing

EE 574	Discrete-time Modem Design for Wireless Communications	3	EE 380: Communication Systems
EE 578	Information Theory and Machine Learning	3	MATH 230/MATH 230H – Probability
EE 582	Error Correction Coding	3	EE380: Communication Systems
EE 583	Network Protocol and Performance	3	EE 515/CS 501: Applied Probability
EE 664	Robot Dynamics and Control	3	EE 361: Feedback Control Systems OR EE 562: Robot Motion Planning
ELECTRONICS AND EMBEDDED SYSTEMS			
EE 320	Computer Organization and Assembly Language	4	EE/CS 220: Digital Logic Circuits OR Any Programming Course
EE 421	Digital Systems Design	4	EE 320: Computer Organization and Assembly Language OR EE 324: Microcontroller and Interfacing
EE 520	Computer Architecture	3	EE 320: Computer Organization & Assembly Language OR EE 324: Microcontroller & Interfacing
EE 522	Embedded Systems	3	EE 320: Computer Organization & Assembly Language OR EE 324: Microcontroller & Interfacing
EE 523	VLSI Design	3	EE 340: Devices & Electronics
EE 527	Mixed Signal Design	3	EE310: Signals and Systems EE 341: Microelectronic Design
EE 529	Custom IC Design	3	EE 341: Microelectronic Design
DEVICES, OPTICS, AND ELECTROMAGNETICS			
EE 332	Introduction to Photonics	3	PHY 211: Waves & Optics OR EE 330/PHY 305: Electromagnetic Fields & Waves
EE 433	Laser Engineering	3	PHY 211: Waves & Optics OR EE 330/PHY 305: Electromagnetic Fields & Waves
EE 434	Principles of Optics	3	EE 330/PHY 305: Electromagnetic Fields & Waves
EE 442	Semiconductor Devices	3	EE 340: Devices & Electronics OR PHY 204: Electricity & Magnetism
EE 524	Nano-Electronic Devices	3	EE 340: Devices & Electronics OR PHY 204: Electricity & Magnetism
EE525	Photovoltaic Devices	3	EE 340: Devices & Electronics OR PHY 204: Electricity & Magnetism
EE 528	Semiconductor Device Fundamentals	3	EE 340 for EE undergraduate students; PHY 204 for PHY undergraduate students. Basic programming knowledge/experience in MATLAB
EE 530	Antenna Theory and Design	3	EE 330/PHY 305: Electromagnetic Fields & Waves

EE 531	Microwaves and RF Design	3	EE 330: Electromagnetic Fields and Waves
EE 532	Opto-Electronic Devices	3	EE 330/PHY 305: Electromagnetic Fields & Waves EE 340: Devices & Electronics OR PHY 204: Electricity & Magnetism
EE 533	Quantum Optics	3	PHY 212: Quantum Mechanics I
EE 538	Photonics Fundamentals	3	EE 330/PHY 305: Electromagnetic Fields & Waves
EE 5312	Radar System	3	EE 330/PHY 305: Electromagnetic Fields & Waves
ENERGY AND POWER SYSTEMS			
EE 353	Electrical Power Systems	3	EE 242: Circuits II
EE 452	Power Electronics	4	EE 340: Devices & Electronics
EE 453	Power System Protection and Stability	3	EE 353: Electrical Power Systems
EE 553	High Voltage Engineering	3	EE 353: Electrical Power Systems
EE 554	Electrical Drives	3	EE452: Power Electronics
EE 555	Renewable Energy Systems	3	EE 340: Devices & Electronics
EE 556	Power System Planning	3	EE 353: Electrical Power Systems
EE 557	Electricity Markets	3	None
TOTAL REQUIRED CREDITS		16	

This is a sample list of elective courses. Other courses being offered by the department may also satisfy the elective requirement.

Electrical Engineering – Programme Structure

Graduation Requirement		132-135* Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores Major Electives Total	56 Credit Hours 16 Credit Hours 72 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
Free Electives*		9 Credit Hours	

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
<u>CHEM 101</u>	<u>Principles of Chemistry</u>	<u>3</u>	<u>BIO 100</u>	<u>Biology Laboratory</u>	<u>1</u>
<u>PHY 101</u>	<u>Mechanics</u>	<u>4</u>	<u>BIO 101</u>	<u>Introductory Biology</u>	<u>3</u>
<u>MATH 101/MATH 101H**</u>	<u>Calculus I</u>	<u>3</u>	<u>CHEM 100</u>	<u>Experimental Chemistry</u>	<u>1</u>
<u>CS 100</u>	<u>Computational Problem Solving</u>	<u>3</u>	<u>PHY 104</u>	<u>Modern Physics</u>	<u>4</u>
<u>ENGG 100</u>	<u>Measurement and Design Lab</u>	<u>2</u>	<u>MATH 120/MATH 120H/MATH 121***</u>	<u>Linear Algebra with Differential Equation / Linear Algebra I (Honours)</u>	<u>3</u>
			<u>SS 100</u>	<u>Writing & Communication</u>	<u>4</u>
<u>SS 101</u>	<u>Islamic Studies</u>	<u>2</u>	<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>
<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>			
	Total	17.5		Total	16.5
Sophomore Fall			Sophomore Spring		
<u>MATH 102</u>	<u>Calculus II</u>	<u>3</u>	<u>EE 242</u>	<u>Circuits II</u>	<u>3</u>
	<u>SBASSE Elective</u>	<u>3</u>	<u>EE 220</u>	<u>Digital Logic Circuits</u>	<u>3</u>
<u>EE 201</u>	<u>Introduction to Programming</u>	<u>4</u>	<u>EE 220L</u>	<u>Digital Logic Circuits Lab</u>	<u>1</u>
<u>EE 240</u>	<u>Circuits I</u>	<u>3</u>	<u>EE 241L</u>	<u>Introductory Circuits Lab</u>	<u>2</u>
<u>EE 203</u>	<u>Engineering Models</u>	<u>3</u>	<u>EE 202</u>	<u>Data Structures</u>	<u>3</u>
<u>SS 102</u>	<u>Pakistan Studies</u>	<u>2</u>	<u>MATH 230/MATH 230H***</u>	<u>Probability</u>	<u>3</u>
			<u>EE 310</u>	<u>Signals and Systems</u>	<u>3</u>
	Total	18		Total	18
Junior Fall			Junior Spring		
<u>EE 380</u>	<u>Communication Systems</u>	<u>3</u>	<u>EE 356</u>	<u>Electrical Machines and Power Systems</u>	<u>3</u>
<u>EE 380L</u>	<u>Communication Systems Lab</u>	<u>1</u>	<u>EE 356L</u>	<u>Electrical Machines and Power Systems Lab</u>	<u>1</u>
<u>EE 324</u>	<u>Microcontroller and Interfacing</u>	<u>2</u>	<u>EE 361</u>	<u>Feedback Control Systems</u>	<u>3</u>
<u>EE 324L</u>	<u>Microcontroller and Interfacing Lab</u>	<u>1</u>	<u>EE 361L</u>	<u>Feedback Control Systems Lab</u>	<u>1</u>
<u>EE 330</u>	<u>Electromagnetic Fields and Waves</u>	<u>3</u>		<i>Major Elective</i>	<u>3</u>
<u>EE 340</u>	<u>Devices and Electronics</u>	<u>3</u>		<i>Free Elective</i>	<u>3</u>
<u>EE 340L</u>	<u>Devices and Electronics Lab</u>	<u>1</u>		<i>Free Elective</i>	<u>3</u>
	University Distribution	3-4			
	Total	17-18		Total	17
Senior Fall			Senior Spring		
<u>EE 491A</u>	<u>Senior Project A</u>	<u>3</u>	<u>EE 491B</u>	<u>Senior Project B</u>	<u>3</u>
<u>EE XXX</u>	<i>Major Elective</i>	<u>3</u>	<u>EE XXX</u>	<i>Major Elective</i>	<u>3</u>
<u>EE XXX</u>	<i>Major Elective</i>	<u>4</u>	<u>EE XXX</u>	<i>Major Elective</i>	<u>3</u>
	University Distribution	3-4		University Distribution	3-4
	<i>Free Elective</i>	<u>3</u>			
	Total	16-17		Total	12-13

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**Mathematics core courses are offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	<i>Major Core</i>	<i>Major Elective</i>	<i>Free Elective</i>
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

Department of Mathematics

Mathematics Core Courses

In addition to all MATH prefix courses listed in the SBASSE core, Math majors must take all of the courses in the following table:

CODE	TITLE	CREDITS	PRE-REQUISITES
MATH 102	Calculus II	3	MATH 101/MATH 101H: Calculus I/Calculus I Honours AND MATH 120/MATH 120H: Linear Algebra with Differential Equations/Linear Algebra I Honours
MATH 222	Linear Algebra II	3	MATH 120/MATH 120H: Linear Algebra with Differential Equations /Linear Algebra I Honours
MATH 210	Introduction to Differential Equations	3	MATH 120/MATH 120H: Linear Algebra with Differential Equations /Linear Algebra I Honours
MATH 204	Introduction to Formal Mathematics	3	MATH 120/MATH 120H: Linear Algebra with Differential Equations / Linear Algebra I Honours
MATH 205	Introduction to Analysis I	3	MATH 102: Calculus II
MATH 309	Introduction to Analysis II	3	MATH 205: Introduction to Analysis I
MATH 300	Complex Variables	3	MATH 205: Introduction to Analysis I
MATH 310	Ordinary Differential Equations	3	MATH 210: Introduction to Differential Equation & MATH 205: Introduction to Analysis I
MATH 3010	Advanced Calculus	3	MATH 205: Introduction to Analysis I & MATH 222: Linear Algebra II
MATH 320	Algebra I	3	MATH 204: Introduction to Formal Mathematics
MATH 407	General Topology	3	MATH 205 Introduction to Analysis I
MATH 491 A	Senior Project A	3	N/A
MATH 491 B	Senior Project B	3	N/A
	TOTAL	39	

Mathematics Elective Requirements

A minimum of 21 credit hours of Math courses outside of those listed in the above-mentioned table (Mathematics Core Courses) must be taken by students in the Math Major.

Note: MATH 100: Pre-Calculus does not count towards Mathematics electives for Mathematics Major

Mathematics – Programme Structure

Graduation Requirement		130 Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores	39 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
	Major Electives	21 Credit Hours	
	Total	60 Credit Hours	
Free Electives*		16 Credit Hours	

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
<u>CHEM 101</u>	<u>Principles of Chemistry</u>	<u>3</u>	<u>BIO 100</u>	<u>Biology Laboratory</u>	<u>1</u>
<u>PHY 101</u>	<u>Mechanics</u>	<u>4</u>	<u>BIO 101</u>	<u>Introductory Biology</u>	<u>3</u>
<u>MATH 101/MATH 101H***</u>	<u>Calculus I</u>	<u>3</u>	<u>CHEM 100</u>	<u>Experimental Chemistry</u>	<u>1</u>
<u>CS 100</u>	<u>Computational Problem Solving</u>	<u>3</u>	<u>PHY 104</u>	<u>Modern Physics</u>	<u>4</u>
<u>ENGG 100</u>	<u>Measurement and Design Lab</u>	<u>2</u>	<u>MATH 120/MATH 120H</u>	<u>Linear Algebra with Differential Equations / Linear Algebra I (Honours)</u>	<u>3</u>
<u>SS 101</u>	<u>Islamic Studies</u>	<u>2</u>	<u>SS 100</u>	<u>Writing & Communication</u>	<u>4</u>
<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>	<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>
Total		17.5	Total		16.5
Sophomore Fall			Sophomore Spring		
<u>MATH 210</u>	<u>Introduction to Differential Equations</u>	<u>3</u>	<u>MATH 230/MATH 230H***</u>	<u>Probability</u>	<u>3</u>
<u>MATH 204</u>	<u>Introduction to Formal Mathematics</u>	<u>3</u>	<u>MATH XXX</u>	<u>SBASSE Elective</u>	<u>3</u>
<u>MATH 102</u>	<u>Calculus II</u>	<u>3</u>	<u>MATH 205</u>	<u>Introduction to Analysis I</u>	<u>3</u>
<u>SS 102</u>	<u>Pakistan Studies</u>	<u>2</u>		<u>Free Elective</u>	<u>3</u>
<u>MATH222</u>	<u>Linear Algebra II</u>	<u>3</u>		<u>University Distribution</u>	<u>3-4</u>
Total		14	Total		15-16
Junior Fall			Junior Spring		
<u>MATH 309</u>	<u>Introduction to Analysis II</u>	<u>3</u>	<u>MATH 320</u>	<u>Algebra I</u>	<u>3</u>
<u>MATH 300</u>	<u>Complex Variables</u>	<u>3</u>	<u>MATH 3010</u>	<u>Advanced Calculus</u>	<u>3</u>
	<u>Free Elective</u>	<u>3</u>	<u>MATH 310</u>	<u>Ordinary Differential Equations</u>	<u>3</u>
	<u>Free Elective</u>	<u>3</u>	<u>MATH XXX</u>	<u>Major Elective</u>	<u>3-4</u>
<u>MATH XXX</u>	<u>Major Elective</u>	<u>3</u>		<u>University Distribution</u>	<u>3-4</u>
Total		15	Total		15-17
Senior Fall			Senior Spring		
<u>MATH XXX</u>	<u>Major Elective</u>	<u>3</u>	<u>MATH XXX</u>	<u>Major Elective</u>	<u>3-4</u>
<u>MATH491 A</u>	<u>SPROJ A</u>	<u>3</u>	<u>MATH XXX</u>	<u>Major Elective</u>	<u>3-4</u>
	<u>Free Elective</u>	<u>3</u>	<u>MATH491B</u>	<u>SPROJ B</u>	<u>3</u>
	<u>Free Elective</u>	<u>3-4</u>	<u>MATH 407</u>	<u>General Topology</u>	<u>3</u>
	<u>Free Elective</u>	<u>3-4</u>		<u>Free Elective</u>	<u>3</u>
				<u>University Distribution</u>	<u>3-4</u>
Total		15-17	Total		15-18

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**The SBASSE Elective requirement for BS Math majors is one course of 3 credits to be taken outside the major, but within SBASSE, in Sophomore year or beyond. For BSc Math majors, however, this requirement can be satisfied by taking any free elective of 3 credits.

***Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	Major Core	Major Elective	Free Elective
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

The Economics and Mathematics (Joint Major) Programme

The Economics and Mathematics joint major provides a strong base to those students who intend to pursue further studies at the graduate level in the field of Economics. Students seeking admission to a graduate programme have a higher chance of getting admitted to top ranked schools if they have taken mathematics courses like calculus, analysis, and linear algebra during their undergraduate degree programme.

A joint major housed at both Schools.

The major will now also be housed at Syed Babar Ali School of Science and Engineering (SBASSE), in addition to the currently offered programme BSc Economics and Mathematics by Mushtaq Ahmed Gurmani School of Humanities and Social Sciences (MGSHSS). Students graduate with a BS or BSc (Hons) degree respectively. The major requirements, major cores and electives are identical across both schools; however, school requirements differ.

Students pursuing a BSc (Hons) in Economics and Mathematics must complete the university core and distribution in addition to the major core, elective and free elective requirements, while those pursuing a BS in Economics and Mathematics from the SBASSE must additionally complete the SBASSE school core requirements. The SBASSE sophomore students can opt for a major change whereas students from the rest of the schools can apply for an inter school transfer.

For the award of specialization Medal at the time of graduation, students of both schools are in competition for the major in Economics & Mathematics (joint major) Gold Medal.

For further details, please refer to Policy 'Medals: Specialization – Major' under Section I.

Entry Requirement for Economics and Mathematics Joint Major:

A student wishing to major in Economics and Mathematics must have the following at the time of applying for this major:

1. A CGPA of 3.0 or above.
2. A minimum of B in Calculus-I and Linear Algebra with Differential Equations.

The maximum number of students accepted into this major each year is 50 (inclusive of both schools).

Graduation Requirements: 130 credit hours

Kindly refer to the Undergraduate Programme Policies and Regulations

University Core: 9 credit hours

Kindly refer to the Undergraduate Programme Policies and Regulations.

Students enrolled in the BS programme must complete the SSE Core (34 credit hours) and take 3 out-group courses as part of their University Distribution. In-group requirements are taken care of by the SSE Core. Kindly refer to the Undergraduate Programme Policies and Regulations.

Major Core Course

Economics Core Courses

The following courses form the economic core for the major.

CODE	COURSE TITLE	CREDITS
ECON 111	Principles of Microeconomics	4
ECON 121	Principles of Macroeconomics	4
ECON 211	Intermediate Microeconomics	4
ECON 221	Intermediate Macroeconomics	4
ECON 330	Econometrics	4
ECON 411	Advanced Microeconomics	4
OR		
ECON 421	Advanced Macroeconomics	4
	TOTAL	24

Mathematics Core Courses

The following math courses form the mathematics core of the major.

CODE	COURSE TITLE	CREDITS
MATH 101/MATH 101H	Calculus-I/Calculus I Honours	3
MATH 102	Calculus-II	3
MATH 120/MATH 120H	Linear Algebra with Differential Equations / Linear Algebra I Honours	3
MATH 230/MATH 230H	Probability / Probability Honours	3
MATH 204	Introduction to Formal Mathematics	3
MATH 205	Introduction to Analysis I	3

In addition to the above course, students in the SSE stream must take MATH 231- Statistics in place of ECON 230- Statistics and Data Analysis.

The following table provides a guide to where courses will fall for students in different streams.

COURSE	MGSHSS STREAM	SSE STREAM
ECON 111 Principles of Microeconomics	Major Core	Major Core
ECON 121 Principles of Macroeconomics	Major Core	Major Core
ECON 211 Intermediate Microeconomics	Major Core	Major Core
ECON 221 Intermediate Macroeconomics	Major Core	Major Core
ECON 330 Econometrics	Major Core	Major Core
ECON 411 Advanced Microeconomics or ECON 421 Advanced Macroeconomics	Major Core	Major Core
MATH 101 / MATH 101H Calculus I	Major Core	SSE Core
MATH 102 Calculus II	Major Core	Major Core
MATH 120/MATH 120H Linear Algebra with Differential Equations / Linear Algebra I Honours	Major Core	SSE Core

MATH 205 Introduction to Analysis I	Major Core	Major Core
MATH 230/MATH 230H Probability	Major Core	SSE Core
MATH 231 Statistics or ECON 230 Statistics and Data Analysis	Major Core – May take either course	Major Core – Must take MATH 231

Economics Elective Courses; 8 Credit hours (2 courses)

Two or more courses with an ECON code are required beyond those listed as core Economics courses. Of these, at least one must be at the 400 level (Senior requirement). The Senior requirement cannot be fulfilled by the 400-level course taken as part of the core or by a Senior Project or Independent Study.

Note: Transfer students or the students who go on an exchange programme and fall short by 1 or 2 credits in their economics core or elective courses are allowed to take 1 or 2 credit Independent Study to fulfil graduation requirements.

Suggested Economics Elective Courses:

It is recommended that students in the Economics and Mathematics major who wish to go on to graduate programmes in economics, consider the following courses for their economics elective courses:

CODE	COURSE TITLE	CREDITS
ECON 233	Introduction to Game Theory	4
ECON 435	Advanced Game Theory	4
ECON 411	Advanced Microeconomics	4
ECON 421	Advanced Macroeconomics	4
ECON 425	Applied Macroeconomics	4
ECON 423	Growth Theories	4
ECON 414	Applied Microeconomics	4

Note: ECON 411/421 may count as one elective ONLY if the student takes both courses. In such a case, one will count in the core and the other as an elective. A single course CANNOT count both towards the core and elective requirement.

Mathematics Elective Courses: 6 credit hours

In addition to the core courses, students majoring in Economics and Mathematics will need to take elective courses in the discipline of Mathematics to complete 8 credit hours. Two of the courses should be at least 300 level. For a complete list of elective Mathematics courses please refer to the course lists given under the Mathematics Major.

Free Electives: Can be taken from any specialization to complete 130 credit hours.

The Economics and Mathematics (Joint Major) – Programme Structure

Graduation Requirement		130 Credit Hours
University Core		8 Credit Hours (3 Courses)
University Distribution	In-Group	12-16 Credit Hours (4 Courses)
	Out-Group	9-12 Credit Hours (3 Courses)
	Total	21-28 Credit Hours (7 Courses)
SBASSE Cores		34 Credit Hours
Major Requirement	Economics Cores	24 Credit Hours (6 Courses)
	Economics Electives	8 Credit Hours (2 Courses)
	Mathematics Cores	12 Credit Hours (4 Courses)
	Mathematics Electives	6 Credit Hours (2 Courses)
	Total	50 Credit Hours (16-17 Courses)
Free Electives*		Courses can be taken from any area to complete 130 Credit Hours

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
<u>MATH 101/MATH 101H***</u>	<u>Calculus-I</u>	<u>3</u>	SS 100	Writing and Communication	<u>4</u>
CHEM 101	Principles of Chemistry	3	<u>MATH 120/MATH 120H</u>	<u>Linear Algebra with Differential Equations / Linear Algebra I (Honours)</u>	<u>3</u>
PHY 101	Mechanics	4	BIO 100	Experimental Biology Laboratory	1
CS 100	Computational Problem Solving	3	<u>BIO 101</u>	<u>Introductory Biology</u>	<u>3</u>
ENGG 100	Measurement and Design Lab	2	CHEM 100	Experimental Chemistry Laboratory	1
SS 101	Islamic Studies	2	ECON 111	Principles of Microeconomics**	4
SSE 101	Freshmen Tutorials	0.5	<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>
	Total	17.5		Total	16.5
Sophomore Fall			Sophomore Spring		
SS 102	Pakistan Studies	2	PHY 104	Modern Physics	4
ECON 121	Principles of Macroeconomics	4	<u>MATH 230/MATH 230H*</u>	<u>Probability</u>	<u>3</u>
ECON 211	Intermediate Microeconomics	4	ECON 221	Intermediate Macroeconomics	4
MATH 102	Calculus II	3	MATH 205	Introduction to Analysis I	3
<u>Math 204</u>	<u>Intro to Formal Mathematics</u>	<u>3</u>	<u>ECON XXX</u>	<u>Economics Elective 200/300+ level</u>	<u>4</u>
	Total	16		Total	18
Junior Fall			Junior Spring		
MATH 231	Statistics	3	ECON 411 / ECON 421	Advanced Microeconomics / Advanced Macroeconomics	4
ECON 330	Econometrics	4		University Distribution	3/4
<i>MATH XXX</i>	<i>Mathematics Elective 300/400 level</i>	<i>3</i>		<i>SSE Electives</i>	<i>3/4</i>
	University Distribution	3/4		<i>Free Electives</i>	<i>3/4</i>
	<i>Free Electives</i>	<i>3/4</i>		<i>Free Electives</i>	<i>3/4</i>
	Total	16-18		Total	16-20
Senior Fall			Senior Spring		
<i>ECON XXX</i>	<i>Economics Elective 400 level</i>	<i>4</i>		<i>Free Electives</i>	<i>3/4</i>
<i>MATH XXX</i>	<i>Mathematics Elective 300/400 level</i>	<i>3</i>		<i>Free Electives</i>	<i>3/4</i>
	University Distribution	3/4		<i>Free Electives</i>	<i>3/4</i>
	<i>Free Electives</i>	<i>3/4</i>		<i>Free Electives</i>	<i>3/4</i>
	<i>Free Electives</i>	<i>3/4</i>			
	Total	16-19		Total	12-16

*The number of courses taken towards Free Elective requirements will vary according to the Course Credit Hour which can be of 3 or 4 Cr.

**Can be taken either in Fall or Spring semester.

*** Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	<u>Major Core</u>	<u>Major Elective</u>	<u>Free Elective</u>
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

Department of Physics

Physics Core Courses

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
MATH 102	Calculus II	3	MATH 101/MATH 101H: Calculus I
PHY 204	Electricity and Magnetism	3	PHY 101: Mechanics
PHY 212	Quantum Mechanics I	3	PHY 104: Modern Physics
SCI 210	Energy and Information	3	MATH 101/MATH 101H: Calculus I
PHY 223	Mathematical Methods in Physics and Engineering I	3	MATH 102: Calculus II & (MATH 120/MATH 120H/MATH 121: Linear Algebra with Differential OR MATH 220: Linear Algebra I
PHY 300	Experimental Physics II	3	PHY 100 Experimental Physics Lab I
PHY 305*	Electromagnetic Fields and Waves	3	PHY 204: Electricity & Magnetism & MATH 102: Calculus II
PHY 301	Classical Mechanics	3	PHY 101: Mechanics
PHY 312	Quantum Mechanics II	3	PHY 212: Quantum Mechanics I
PHY 313	Statistical Mechanics	3	PHY 101: Mechanics & PHY 104: Modern Physics AND SCI 210: Energy and Information
PHY 304	Computational Physics**	3	PHY 101: Mechanics AND PHY 104: Modern Physics AND CS 100: Computational Problem Solving
PHY 404	Relativistic Electrodynamics	3	PHY 305 Electromagnetic Fields and Waves
PHY 48X	Seminars in Physics	1	Junior Standing
PHY 491A	Senior Project I	3	N/A
PHY 491B	Senior Project II	3	N/A
	TOTAL	43	

*Cross listed with EE 330: Electromagnetic Fields and Waves

** Any ONE of the following three courses can be taken to satisfy this requirement of a computational course: (1) PHY 304 Computational Physics; (2) MATH 344 Numerical Analysis; (3) MATH 4310 Scientific Computation and Simulation in Python. Also note that any of the remaining two courses cannot be taken as a physics major elective course.

Physics Elective Courses

Along with the courses offered by the Physics department, students can take many courses offered within SSE as Physics major electives (even if they are not cross-listed, and even with prefixes other than PHY). A total of 15 credit hours of courses needs to be taken as physics major electives. To see, which (non-physics) courses, please contact the department.

Following is a non-exhaustive list of Physics elective courses that are typically offered by the department.

CODE	COURSE TITLE	CREDITS	PRE-REQUISITES
PHY 106	The Universe Around Us	3	N/A
PHY 107	The Physics of Planets - Our Current and Future Homes	3	N/A

PHY 307	Introduction to Quantum Computing	3	PHY 212: Quantum Mechanics I
PHY 306	Python for Computing and Visualization	3	N/A
PHY 310	Experimental Physics III	3	PHY 300: Experimental Physics II OR EE 241L: Introductory Circuits Lab OR EE 220: Digital Logic Circuits
PHY 314	Introduction to Quantum Engineering	3	PHY 212: Quantum Mechanics I
PHY 323	Mathematical Methods for Physics and Engineering II	3	PHY 223: Mathematical Methods in Physics and Engineering I
PHY 332	Condensed Matter Physics	3	PHY 212: Quantum Mechanics I
PHY 335	Molecular Symmetry I	3	CHEM 101: Principles of Chemistry
PHY 337	Molecular Spectroscopy	3	CHEM 101: Principles of Chemistry
PHY 404	Relativistic Electrodynamics	3	PHY 305: Electromagnetic Fields & Waves
PHY 405	Engineering Physics Project Lab	3	PHY 300: Experimental Physics Lab II OR 340L: Devices and Electronics Lab
PHY 411	Quantum Optics	3	PHY 212: Quantum Mechanics I
PHY 415	Introduction to Photonics	3	PHY 211: Waves & Optics OR EE 330/ PHY 305: Electromagnetic Fields & Waves
PHY 416	Principles of Optics	3	PHY 305: Electromagnetic Field and Waves
PHY 422	Lie Groups and their Representation	3	PHY 223: Mathematical Methods in Physics and Engineering I
PHY 5315	Laser Engineering	3	None
PHY 434	Introduction to Nanoscience	3	PHY 104: Modern Physics
PHY 442	General Relativity	3	PHY 404: Relativistic Electrodynamics
PHY 451	Nuclear and Particle Physics	3	PHY 212: Quantum Mechanics I
PHY 501	Electrodynamics	3	PHY 305 Electromagnetic Fields and Waves
PHY 512	Advanced Quantum Mechanics	3	PHY 212: Quantum Mechanics I
PHY 516	Optoelectronic Devices	3	PHY 204: Electricity and Magnetism OR EE 340: Devices and Electronics
PHY 518	Photonic Fundamentals	3	PHY 305: Electromagnetic Fields and Waves
PHY 519	Symmetry Methods, Conservation Laws and Exact Solutions for Differential Equations	4	MATH 210: Introduction to Differential Equation
PHY 5331	Atomic and Laser Physics	3	PHY 212: Quantum Mechanics I
PHY 532	Photovoltaic Devices	3	PHY 204 Electricity and Magnetism OR EE 340 Devices and Electronics
PHY 534	Nano-electronic Devices	3	PHY 204 Electricity and Magnetism OR EE 340 Devices and Electronics

PHY 537	Semiconductor Devices and Fundamentals	3	PHY 204 Electricity and Magnetism
PHY 405	Engineering Physics Project Lab	3	PHY 300: Experimental Physics Lab II OR 340L: Devices and Electronics Lab
PHY 538	Special Topics in Condensed Matter Physics	3	PHY 332 Condensed Matter Physics
PHY 539	Introduction to Quantum Field Theory	3	PHY 312 Quantum Mechanics II AND PHY 301 Classical Mechanics
PHY 612	Introduction to Quantum Information Science	3	PHY 212: Quantum Mechanics I
PHY 633	Magnetism: Theory and Experiment	3	PHY 332 Condensed Matter Physics and PHY 212 Quantum Mechanics I
PHY 644	Cosmology and Black Holes	3	PHY 442: General Relativity
SSEXXX	Many courses from within SSE can be counted as physics major electives. To see which one, please contact the department.		
TOTAL REQUIRED CREDITS		15	

Physics – Programme Structure

Graduation Requirement		130 Credit Hours	
University Core		8 Credit Hours (3 Courses)	
University Distribution	Out-Group	9-12 Credit Hours (3 Courses)	
SBASSE Cores		34 Credit Hours (13 Courses)	
Major Requirement	Major Cores	43 Credit Hours	The number of courses taken towards these requirements will vary according to the course credit hour which can be of 3 or 4 credits.
	Major Electives	15 Credit Hours	
	Total	58 Credit Hours	
Free Electives*		18 Credit Hours	

Sample Four Year Plan

Code	Course Title	Credits	Code	Course Title	Credits
First Year Fall			First Year Spring		
<u>CHEM 101</u>	<u>Principles of Chemistry</u>	<u>3</u>	<u>BIO 100</u>	<u>Biology Laboratory</u>	<u>1</u>
<u>PHY 101</u>	<u>Mechanics</u>	<u>4</u>	<u>BIO 101</u>	<u>Introductory Biology</u>	<u>3</u>
<u>MATH 101/MATH 101H***</u>	<u>Calculus I</u>	<u>3</u>	<u>CHEM 100</u>	<u>Experimental Chemistry</u>	<u>1</u>
<u>CS 100</u>	<u>Computational Problem Solving</u>	<u>3</u>	<u>PHY 104</u>	<u>Modern Physics</u>	<u>4</u>
<u>ENGG 100</u>	<u>Measurement and Design Lab</u>	<u>2</u>	<u>MATH 120/MATH 120H/MATH 121***</u>	<u>Linear Algebra with Differential Equations/ Linear Algebra I (Honours)</u>	<u>3</u>
<u>SS 101</u>	<u>Islamic Studies</u>	<u>2</u>	<u>SS 100</u>	<u>Writing & Communication</u>	<u>4</u>
<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>	<u>SSE 101</u>	<u>Freshmen Tutorials</u>	<u>0.5</u>
Total		17.5	Total		16.5
Sophomore Fall			Sophomore Spring		
<u>PHY 204</u>	<u>Electricity and Magnetism</u>	<u>3</u>	<u>SCI 210</u>	<u>Energy and Information</u>	<u>3</u>
<u>MATH 102</u>	<u>Calculus II</u>	<u>3</u>	<u>PHY 312</u>	<u>Quantum Mechanics II</u>	<u>3</u>
<u>PHY 212</u>	<u>Quantum Mechanics I</u>	<u>3</u>	<u>MATH 230/MATH 230H***</u>	<u>Probability</u>	<u>3</u>
<u>PHY 223</u>	<u>Mathematical Methods in Physics I</u>	<u>3</u>	<u>PHY 305</u>	<u>Electromagnetic Fields and Waves</u>	<u>3</u>
<u>SS 102</u>	<u>Pakistan Studies</u>	<u>2</u>	University Distribution		3-4
	<u>SBASSE Elective**</u>	<u>3</u>	Total		15-16
Junior Fall			Junior Spring		
<u>PHY 300</u>	<u>Experimental Physics lab II</u>	<u>3</u>	<u>PHY 304</u>	<u>Computational Physics</u>	<u>3</u>
<u>PHY 301</u>	<u>Classical Mechanics</u>	<u>3</u>	<u>PHY 48X</u>	<u>Seminars in Physics</u>	<u>1</u>
<u>PHY 313</u>	<u>Statistical Mechanics</u>	<u>3</u>	<u>PHY XXX</u>	<u>Major Elective</u>	<u>3</u>
<u>PHY 404</u>	<u>Relativistic Electrodynamics</u>	<u>3</u>	<u>PHY XXX</u>	<u>Major Elective</u>	<u>3</u>
University Distribution		3-4	University Distribution		3-4
Total		15-16	Total		13-14
Senior Fall			Senior Spring		
<u>PHY 491A</u>	<u>Senior Year Project A</u>	<u>3</u>	<u>PHY 491B</u>	<u>Senior Year Project B</u>	<u>3</u>
<u>PHY XXX</u>	<u>Major Elective</u>	<u>3</u>	<u>PHY XXX</u>	<u>Major Elective</u>	<u>3</u>
<u>PHY XXX</u>	<u>Major Elective</u>	<u>3</u>		<u>Free Elective</u>	<u>3</u>
	<u>Free Elective</u>	<u>3</u>		<u>Free Elective</u>	<u>4</u>
	<u>Free Elective</u>	<u>4</u>		<u>Free Elective</u>	<u>4</u>
Total		16	Total		17

*Credit Hours taken towards free electives will vary according to the number of credit hours taken for the University Distribution (Out group).

**The SBASSE Elective requirement is one course of 3 credits to be taken outside the major, but within SBASSE, in Sophomore year or beyond.

*** Mathematics core courses are being offered in two variants, namely, general and honours (H), e.g. Math 101 and Math 101H are, respectively, the general and honours variants of the course Calculus I. The honours variant is an advanced and more challenging version of the general variant, however, both variants will equivalently serve as core requirements for major selection and degree completion. Students will be able to choose between the two variants based on their need and/or interest.

<u>University Core</u>	University Distribution	<u>SBASSE Core</u>	Major Core	Major Elective	Free Elective
Underline	Regular	Bold and Underline	Bold	Bold and Italic	Italic

SBASSE Minors

In the beginning of Fall 2012, SBASSE introduced minors in Biology, Chemistry, Computer Science, Mathematics, and Physics. MGSHSS and SDSB students keen to diversify their undergraduate experience in the sciences or SBASSE students wanting to complement their major discipline with another closely related area are encouraged to take full advantage of this new initiative. The minor degree is intended to impart fundamental knowledge in a specific area but carries with it limited depth and breadth. To satisfy degree requirements for a minor, students must accumulate a minimum of 18 credit hours by taking 6 courses in their area of interest and secure a cumulative GPA of 2.75 in them. Please refer to Section 1: Undergraduate Programme Policies and Regulation (Policy 19.1)

All general rules and regulations announced at University level in this Undergraduate Student Handbook must be adhered to by students who are interested in obtaining a minor in SBASSE. Courses which are part of major core in an area will not count towards their minor; students must therefore take additional courses in an area, prescribed by a department to fulfil their minor degree requirements.

SBASSE departments offering a minor have provided a menu of compulsory courses, from which a certain number must be taken, to qualify for the minor degree. SBASSE students choosing any of the compulsory courses as “SBASSE elective” must take another course from the list, since one course cannot be used simultaneously towards a minor as well as to satisfy SBASSE elective requirement. Additionally, students must take two 300 level courses from the list of elective courses provided by each discipline.

List of courses that can be taken to obtain a minor in each of the five areas at SBASSE is given.

Biology Minor

To obtain a minor in Biology, students must take a minimum of 6 regular courses (18 to 24 credit hours). Students should note that the SBASSE elective will not double count towards both Biology minor and the SBASSE elective requirement.

Compulsory Courses

From the list of compulsory courses, a student must take at least two courses in addition to BIO 101 and BIO 216 (both deemed as minor “core” courses). SBASSE students choosing any of the compulsory courses as SBASSE elective must take an additional course from the list of compulsory courses. Students should note that the SBASSE elective will not double count towards both Biology minor and SBASSE elective.

BIO 101: Introductory Biology	3 credit hours
BIO 212: Biochemistry*	3 credit hours
BIO 216: Molecular Biology	3 credit hours
BIO 221: Genetics	4 credit hours
BIO 231: Computational Biology I	3 credit hours

*Biochemistry (BIO 212) will not count towards the minor requirements for students majoring in Chemistry, who take it as part of Chemistry major core.

Optional Courses

Students may take any of the Biology courses, except BIO 100 and BIO 300/ 500 to complete 18 credit hours. However, Biology Courses listed as major requirements of a specific discipline will not double count towards the minor in Biology:

BIO 313: Cell Biology
 BIO 314: Virology and Microbiology
 BIO 318: Neuroscience
 BIO 331: Computational Biology II
 BIO 415/515: Developmental Biology
 BIO 426/526: Human Genetics
 BIO 432/532: Network Biology
 BIO 521: Gene Regulation and Epigenetics

Chemistry Minor

To obtain a minor in Chemistry, students must take a minimum of 6 regular courses (18 to 24 credit hours). As per general policy of minors, double counting of courses is not allowed (i.e., a course can satisfy the requirements of either a major or a minor, but not both). The same rule applies to the SBASSE elective and minor courses as well. Students intending to complete a minor should achieve a minimum cumulative GPA of 2.75 in chemistry courses.

Compulsory Courses

Of the following, Principles of Chemistry (CHEM 101) is a compulsory course and students are required to choose at least two courses from the remaining four. Note that CHEM 231 would not count as a minor course for Biology major students as it is a part of their major core, and they would be required to take two more courses from this list in addition to the compulsory course.

CHEM 101:	Principles of Chemistry	3 Credit Hours
CHEM 231:	Fundamentals of Organic Chemistry	3 Credit Hours
CHEM 324:	Inorganic Chemistry I	3 Credit Hours
CHEM 314:	Quantum Chemistry	3 Credit Hours
CHEM 233:	Molecular Spectroscopy	3 Credit Hours

Optional Courses

Students must take a minimum of three elective courses from the following list. Additional courses may be required for a minor in chemistry if students are also taking any of the courses as the SBASSE elective or as a part of their major core.

CHEM 311: Chemical Thermodynamics
 CHEM 313: Special Topics in Physical Chemistry
 CHEM 221: Molecular Symmetry I
 CHEM 342: Analytical Chemistry I
 CHEM 332: Chemistry of the Organic Functional Groups
 CHEM 334: Advanced Organic Chemistry

Computer Science Minor

To obtain a minor in Computer Science, students must take a minimum of 6 regular courses (18 to 24 credit hours). 10 Credit hours are compulsory courses. The rest can be completed by taking three additional CS courses, at least two of which must be 300+ level.

Compulsory Courses

CS 100 / CS 1001	Computational Problem Solving/ Computational Problem Solving with Python	3 Credit Hours
CS 200 / CS 2001	Introduction to Programming/ Introduction to Programming with Python	4 Credit Hours
CS 202 / CS2021	Data Structures/Data Structures with Python	3 Credit Hours

Foundational programming course routes for a minor in computer science

The CS Department offers two exclusive routes for completing the three foundational programming core courses required for the CS minor.

Route A: CS 100, CS 200, and CS 202 – taught using C/C++

Route B: CS 1001, CS 2001, and CS 2021 – taught using Python

These programming routes are academically equivalent, covering the same core concepts with equal depth and rigor. The primary distinction lies in the choice of programming language. **Once a route is chosen, students must complete all three courses within that route; switching between routes is prohibited.**

Students enrolled in the BSc Economics, Data, and Computer Science program are not eligible to pursue a minor in either Computer Science or Economics.

Optional Courses

Three additional Computer Science Courses of at least 3 credit hours each are required to complete CS minor. At least two of these optional courses must be of 300 level or above.

Please note:

- Seminar courses, Independent Studies, and Projects will not count towards this requirement.
- Optional courses do not include 100 level CS courses.

Mathematics Minor

To obtain a minor in Mathematics, students must take a minimum of 6 regular courses (18 to 24 credit hours. Only one of the Mathematics courses in the SBASSE core will count towards minor requirements.

Compulsory Courses

At least one course must be taken out of the following:

MATH 205: Introduction to Analysis I	3 Credit Hours
MATH 320: Algebra I	3 Credit Hours
MATH 3010: Advanced Calculus	3 Credit Hours

Beyond one course from the list of compulsory courses, at least 3 credit hours are to be taken from 300/400 level Mathematics courses.

Optional Courses

Students may take any of the Mathematics courses, except MATH 100, to complete 18 credit hours. However, Mathematics courses listed as major requirements of a specific discipline will not double count towards minor in Mathematics.

Physics Minor

The Physics minor requires students to take a minimum of 6 regular courses (18 to 24 credit hours). SBASSE students choosing any of the courses as the SBASSE elective must take an additional physics course of their choice at 200+ level, since the SBASSE elective will not be double counted as part of Physics minor.

Compulsory Courses

PHY101: Mechanics*	4 Credit Hours
PHY104: Modern Physics*	4 Credit Hours
PHY204: Electricity and Magnetism**	3 Credit Hours
PHY212: Quantum Mechanics I	3 Credit Hours

*SBASSE students can only count one of Mechanics and Modern Physics towards their minor requirements. SBASSE students (non-EE) would therefore have to take one additional Physics course at 200+ level to complete the minor credit hour requirements.

**Electricity and Magnetism will not count towards the minor requirements of EE major students who take it as part of EE major core. EE students would need to take two additional Physics courses at 200+ level to complete the minor credit hour requirements.

Optional Courses

Students must take any two 300+ level Physics courses.

Robotics Minor

The Electrical Engineering Department has launched an undergraduate minor in the field of Robotics. Robotics is an interdisciplinary field that builds on several core engineering and science disciplines such as Electrical Engineering, Computer Science, Mechanical Engineering, Mathematics, and Physics. A robotic system typically involves environment perception, information processing & intelligent decision making, and physical actuation for accomplishing any assigned task. To design such a system, a robotics engineer needs a strong command on a diverse set of topics including kinematics, dynamics and control, signal processing, optimal planning, sensing systems, embedded systems, and intelligent decision systems.

The minor in robotics is a flexible program that brings up to speed students from all across LUMS and launches them into the exciting area. Through a minimalist but rigorous stream of courses navigating through electronics, programming, control, systems, learning, artificial intelligence, and dynamics; students can now access a new world that is surely and imminently upon us.

Compulsory Courses

Students interested in pursuing a minor in Robotics will be required to follow the roadmap presented below. The students will have to successfully complete **6 regular courses** in the following combination of core and elective courses:

- EE220+L: Digital Logic Circuit with Lab - 4 credit hours.
- EE324+L: Microcontroller and Interfacing with Lab - 3 credit hours.
- EE310: Signals and Systems OR EE203: Engineering Models - 3 credit hours.
- EE3002: Junior Design Studio - Robotics OR EE361+L: Feedback Control Systems with lab - 4 credit hours.
- EE562: Robot Motion Planning OR EE565 Mobile Robotics - 3 credit hours.

Elective Courses

One elective course from the following list:

- EE361+L Feedback Control Systems
- *EE 562 Digital Control
- EE569/CS6314 Dynamic Programming & Reinforcement Learning
- EE512 Digital Image Processing
- EE513/CS5310 Computer Vision Fundamentals
- EE565 Mobile Robotics
- EE562 Robot Motion Planning
- EE3002: Junior Design Studio - Robotics
- EE563 Convex Optimization
- EE578/CS594 Information Theory and Machine Learning
- EE567/CS6315 Multiagent Systems

Please note:

- *EE310 is a pre-req for EE361 and EE562. The students need to ensure that they satisfy these requirements.
- It is strongly recommended for students in Robotics Minor program to enroll in EE 200 Sophomore Design studio, which is a 1 credit course and provides hands-on experience of mechanical design of intelligent machines.

Quantum Technologies Minor

Quantum technologies promise to revolutionize many different areas of technology in the near future. Examples include computing, communication, cryptography, imaging, and sensing. Development of such technologies involves the merging of different areas of physics, engineering, and computation. We propose a minor program in 'quantum technologies' that is meant to enable LUMS and SSE students to become part of the quantum workforce enabling this quantum revolution.

Requirements

To complete the minor requirements, students will have to complete the following requirements (19 credit hours in total for SSE majors):

- Students must successfully complete the following two courses: PHY 212 (Quantum Mechanics 1) and CS 200 (Introduction to Programming) *.
- Students must successfully complete either Phy 315/CS 316/EE 312 (Introduction to quantum computing) or PHY 417/PHY 612/ CS 5112/ EE 539 (Introduction to quantum information science).

- Students must successfully complete one course from the following: PHY 411 (Quantum optics), PHY 5xx (Quantum algorithms).
- Students must successfully complete any two additional courses from the following: the course they did not opt for in requirement 2 above, the courses they did not opt for in requirement 3 above, PHY 312 (Quantum Mechanics II), PHY 512 (Advanced Quantum Mechanics), PHY 505 (Computational Physics), PHY 5331 (Atomic and Laser Physics), PHY 5xx (Quantum Lab).

* CS 200 can be counted as part of both the major requirement as well as fulfilling the requirement of the proposed minor.

Minor in Computer Engineering

The students will have to successfully complete 6 regular courses in the following combination of core and elective courses. (Total Credits: 19/20)

Pre-requisite required: Introduction to Programming (CS200/ EE 201)

Core courses:

1. Digital Logic Circuits and Lab (EE 220) (3+1 Cr Hrs)
2. Data Structures (CS 202/EE 202) (3 Cr Hrs) Pre-req. (CS 200/EE 201)
3. Computer Organization and Assembly Language (EE 320, CS 320) (4 Cr Hrs) Pre-req. (CS 100)
4. Operating System (CS 370) (3 Cr Hrs) Pre-req.. (CS202)

Any **two courses** from the list of elective courses

Electives:

1. Computer Architecture (EE 520/CS 622) **(3 Cr Hrs)** Pre-req. (EE 320/324)
2. Microprocessor and Interfacing (EE 324) **(3+1 Cr Hrs)** Pre-req. (EE 220)
3. Digital System Design (EE 421) **(3+1 Cr Hrs)** Pre-req. (EE 324/320)
4. Embedded Systems (EE 522) **(3 Cr Hrs)** Pre-req. (EE 324/320)
5. Algorithms (CS310) **(3 Cr Hrs)** Pre-req. (CS 210)
6. NW Centric Computing (CS 382/EE475) **(3 Cr Hrs)** Pre-req. (CS 200)
7. Applied Cryptography (EE 5204/CS 5803) (3 Cr Hrs) Pre-req. (CS225 or EE324 or EE/CS320)

(Other elective courses approved by the focal persons / UGC)

Please note: The students who have already taken the core courses as their Major core or Major Electives would have to take additional courses from the list of elective courses. Only one course can be double counted.

Academic Advising at SBASSE

The SBASSE Undergraduate Student Academic Affairs Office helps students in planning their academic career during their undergraduate degree programme from the start of freshman year to graduation. The office helps the students clarify and implement individual educational plans that match their skills, interests, and values, and guides them to achieve their personal, professional and educational goals. This advising can be about course planning and enrolment, major selection, maintaining good academic standing, extracurricular

activities, career guidance or any other issues that require counselling. At SBASSE, students are provided with the necessary academic advising through a faculty advisor, staff advisors in the Dean's Academic Affairs Office and more. All students are encouraged to utilize all the available advising support and resources. Some meetings have been made mandatory for students because those meetings are critical for their academic success at LUMS. Our goal is to enable a timely graduation and encourage the student's comprehensive development.

Advising Support for all Students:

- a) **Staff Advisors** will guide you about the enrolment processes, course plan and other advising nodes on the day of orientation. All the queries from students can be addressed at undergradadvising.sbasse@lums.edu.pk. The queries will be answered via emails or in-person meetings with the staff advisors will be arranged if necessary.
- b) **Faculty advisors** are an integral part of the advising system at SBASSE as they provide invaluable support to help the students adjust to the academic space of the school. Faculty advisors help students navigate their way through the academic streams at SBASSE, by providing guidance related to academic domains such as course selection, major declaration, and academic performance. Students can also discuss non-academic concerns with their faculty advisors, such as social integration issues. Students can access information about their faculty advisor using their Zambeel accounts.
- c) **Workshops:** Advisement sessions will be arranged for students during the year. These sessions will address all academic/non-academic issues. A school-wide event known as the 'Major Day' will be arranged for the first-year students towards the end of their first-year to help them select their major.
- d) **Online Resources:** A range of support resources are available at <http://portal.lums.edu.pk/advising> (including handouts for major exploration, career planning, and more).

Advising Support for Specific Students:

I) First-years:

- **Faculty Advisor:** In their first year at SBASSE, students are assigned a specific faculty member as an advisor. First-year students have one mandatory meeting with their faculty advisor in the Fall semester and one optional meeting in the Spring semester; however, students are encouraged to reach out to their respective advisors as many times as they want, to fulfil their advising needs. First-year students are encouraged to seek guidance related to major selection, which is an important milestone of their first year at SBASSE.
- **Peer Ambassador at LUMS for Social Support (PALs):** In the first year, PALs will also be assigned to the students. They are selective junior and senior students who will be there to guide first-years about the available resources of the university, help them get accustomed to the LUMS and SBASSE environment and be available for students if they are facing any non-academic issues. PALs will not be dispensing any academic advice to first-year students, but they can guide them to relevant academic advising resources. Students will have three informal meetings with their PALs throughout the semester to help them integrate into the LUMS environment.

II) Sophomores:

Once the students move to their sophomore year and have declared their major, they would then be reassigned a faculty advisor in their major for the remainder of their programme at SBASSE. Students are encouraged to seek the support of their major-specific faculty advisor for addressing any issues related to

their chosen major. Sophomores have two mandatory meetings with their faculty advisor throughout the academic year, with one in each semester.

III) Juniors/Seniors:

Junior year students have one optional meeting with their faculty advisor in Fall and one mandatory meeting in Spring. Additionally, the students in their senior year have one optional meeting with their faculty advisor in Fall and no mandatory meetings. Students are encouraged to meet with their advisors, in addition to these meetings, to make the most of their academic journey at SBASSE.

IV) At-risk Students:

Students facing probation during any given semester (students with a CGPA below 2.00) have a mandatory check-in with staff advisors to discuss their academic performance and receive any additional support.

Pre-meeting self-reflection forms: For some meetings the school may require students to complete a reflection form with specific topics that are appropriate for that time in their academic career and programme in order to facilitate their meetings with advisors.

Staff Advisors in the Dean's Academic Affairs Team:

Staff advisors provide invaluable support to students for any kind of academic/non-academic management issues that they might face during their time at LUMS. They are available for:

- Guidance related to the enrolment process, core completion, workload management and referrals.
- One-on-one meetings to provide individualized support related to any academic/non-academic domains (by appointment or through walk-in meetings)
- Assisting students in getting more information about on-campus support services and resources.
- Connecting students with relevant departments/offices to address their concerns in a timely way.
- Providing support related to important university processes, considerable milestones, and guidelines to fulfil graduation requirements in due course of time.

Students can reach out to the staff advisors if they require any help in understanding the school's policies and procedures. For queries related to the above topics/services or for any other queries, you can drop an email at the school's official advising email address.

Office Location: Dean's Wing, 4th Floor, SSE Building

Official Email: undergradadvising.sbasse@lums.edu.pk

SHAIKH AHMAD HASSAN SCHOOL OF LAW (SAHSOL)

The Shaikh Ahmad Hassan School of Law (SAHSOL) B.A.-LL.B. (Honours) is a five-year, full-time programme. It consists of a two-year B.A. phase followed by the LL.B. degree, which is accredited by the Pakistan Bar Council as a qualifying law degree. The combination of a B.A. and an LL.B. in one programme offers our students a solid grounding in the humanities and sciences followed by thorough professional training in law.

The B.A. phase prepares students for the study of law, introducing them to a range of relevant subjects from a variety of disciplines offered by the other four schools of LUMS. Students may study economics, political science, psychology, anthropology/sociology, education, finance, or the STEM disciplines. The three-year LL.B. phase consists of mandatory law courses, such as Criminal, Contract and Public Law, and a variety of elective law courses in specialised areas, such as taxation, arbitration, intellectual property law and competition law. Electives are generally offered in five streams: Public Law, International and Comparative Law, Legal Theory, Criminal Law and Business Law. The Public Law, International and Comparative Law, and Legal Theory streams are mandatory for all students

At SAHSOL, classes are taught through a combination of lectures, Socratic pedagogy, seminars, and clinical or experiential learning. Students are assessed through a mixture of graded instruments: examinations, quizzes, presentations, simulations, and written assessments.

The School of Law prides itself on an interactive teaching environment. A low student-to-faculty ratio ensures that students receive personalised attention from members of the faculty.

BA-LL.B. (Honours) Programme

To earn a BA-LL.B. (Honours) degree, students must complete a minimum of 162 credit hours: 66 credit hours in the B.A. and 96 credit hours in the LL.B.

Graduation Requirement			162 credit hours
1.	B.A.	Total	66 credit hours
		University Core	8 credit hours (3 courses)
		University Distribution	
		<i>In-Group</i>	16 credit hours (4 courses)
		<i>Out-Group</i>	9 credit hours (3 courses)
		Pre-Law Core	12 credit hours (3 courses)
		Free Electives**	Courses may be taken from any School toward completion of the remaining 21 credit hours.
2.	LLB	Total	96 credit hours (24 courses)
		Major Cores	60 credit hours (15 courses)
		Major Electives	36 credit hours (9 courses)

**The number of courses needed to complete the Free Elective requirement will depend on the credit hours of the individual courses taken to meet university in-group and out-group requirements. Qualifying courses can be of 3 or 4 credits.

B.A. Requirement: 66 credit hours

- (i) **University Core Courses:** Students must successfully complete the three University core courses: Writing & Communication (SS 100), Islamic Studies (SS 101) and Pakistan Studies (SS 102).
- (ii) **Pre-Law Courses:** Students must successfully complete Introduction to Pakistan Legal System (LAW 102) and Introduction to Legal Reasoning (LAW 101) during the First Year of the B.A. phase, and Concept of Law (LAW 210) in their Second Year of B.A.
- (iii) **In-Group Courses:** Any four Economics or HSS courses.
- (iv) **Out-Group Courses:** Any three ACF/MGS, SSE, OR EDU courses.
- (v) **Free Electives:** Students can undertake courses at any level, in any particular year, provided that they meet the prerequisites for that course. In general, the Law School advises that students enroll in 100-level and 200-level courses during the B.A. phase. These courses offer broad surveys and are taught at a level of difficulty appropriate for first year students and sophomores who plan to pursue the law degree. Students wishing to take up a 300-level course during the B.A. phase are strongly encouraged to consult their academic advisor and programme coordinator before doing so. Non-Law courses offered by the Law School will be given the General Studies of Law (GSL) prefix. They may be taken by students from all schools; however, they will be counted as Free Electives

LL.B. Requirement: 96 credit hours

The LL.B. consists of 15 mandatory law courses (referred to as “Major Cores”), totaling 60 credit hours and 9 elective law courses (referred to as “Major Electives”), totaling 36 credit hours.

The core courses listed below are required of all LLB students*.

Course Code	Course Title	Credit Hours
LAW 220	Contract Law	4
LAW 240	Criminal Law	4
LAW 222	Torts Law	4
LAW 232	Public Law	4
LAW 223	Commercial Law	4
LAW 225	Islamic Legal Theory	4
LAW 224	Property Law	4
LAW 280	Legal Practice I: Legal Writing and Research Methods	4
LAW 352	Public International Law	4
LAW 3611	Family Law	4
LAW 320	Equity, Specific Relief and Trusts	4
LAW 471	Civil Procedure	4
LAW 470	Evidence	4
LAW 4812	Legal Practice II: Legal Instruments	4
LAW 472	Criminal Procedure	4

LAW ELECTIVES:

The School of Law offers a wide range of electives that vary from year to year. Electives offer students an ability to expand their knowledge of the law to reflect the greater specialisation of legal fields and to deepen their understanding of fundamentals. Many of these electives are structured as seminars.

The following is a non-exhaustive list of some recently offered Law Electives:

Public Law:

- South Asian Constitutionalism
- Law and Politics of Freedom in Modern America
- Environmental Law and Regulations

International and Comparative Law:

- The Refugee in International and Pakistani Law
- International Trade Law
- The Rights of the Child under National and International Law

Criminal Law:

- Criminal Procedure
- Critical Legal Issues in the Global War on Terrorism
- Criminal Law Clinic

Legal Theory:

- Gender, Justice and Law
- Law and Literature
- Topics in Law and Economics

Business Law

- Tax Law
- Competition Law and Antitrust
- Law and Practice of International Commercial Arbitration

DISTRIBUTION REQUIREMENTS

As part of the graduation requirements, each student must complete a minimum of one law elective course from the following three elective streams:

1. Public Law
2. International and Comparative Law
3. Legal Theory

Note: Courses that are offered by another department but cross-listed with Law (i.e. carry a law prefix as well) will count as part of the Major Electives as long as the student enrolls under the law prefix (i.e. LAW XXX).

Sample Five-Year Plan for the B.A.-LLB (Hons) Programme

Code	Course Title	Credits	Code	Course Title	Credits
B.A Phase					
First Year Fall			First Year Spring		
LAW 102	Introduction to Pakistan Legal System*	4	LAW 101	Introduction to Legal Reasoning*	4
	University Core Courses, In-Group Courses, Out-Group Courses and Free Electives			University Core Courses, In-Group Courses, Out-Group Courses and Free Electives	
Sophomore Fall			Sophomore Spring		
In-Group Courses. Out-Group Courses and Free Electives			LAW 210	Concept of Law	4
			In-Group Courses. Out-Group Courses and Free Electives		
LLB Phase					
1st Year Fall			1st Year Spring		
LAW 220	Contract Law	4	LAW 232	Public Law	4
LAW 240	Criminal Law	4	LAW 223	Commercial Law	4
LAW 222	Torts Law	4	LAW 225	Islamic Legal Theory	4
LAW 280	Legal Practice I: Legal Writing & Research Methods	4	LAW 224	Property Law	4
	Total	16		Total	16
2nd Year Fall			2nd Year Spring		
LAW 471	Civil Procedure	4	LAW 470	Evidence	4
LAW 352	Public International Law	4	LAW 3611	Family Law	4
LAW XXX	1 x Law Elective	4	LAW XXX	2 x Law Electives**	4 + 4
Law 472	Criminal Procedure*	4			
	Total	16		Total	16
3rd Year Fall			3rd Year Spring		
LAW 4812	Legal Practice II: Legal Instruments	4	LAW 320	Equity, Specific Relief and Trusts	3
LAW XXX	3 x Law Electives**	4 + 4 + 4	LAW XXX	3 x Law Electives**	4 + 4 + 4
	Total	16		Total	16

* Introduction to Pakistan Legal System and Introduction to Legal Reasoning may also be completed in the Sophomore year.

*Criminal Procedure can be taken in either one of the semesters during the LL.B second and LL.B third year.

Sequence of LLB Courses

Students must follow the sequence of LLB courses set out in the five-year BA-LL.B. (Honours) plan. Students who stray from this sequence do so at their own risk: the Law School will not accommodate requests for changes in the timetable by individual students who have missed compulsory LLB courses and are therefore not able to complete the programme within five years.

Leave of Absence

Although students who take a semester-long leave of absence during their LLB degree are allowed to resume their LLB studies the following semester after approval from the Head of Department or Dean, this is not recommended. LLB courses build upon one another, and not studying the courses in sequence will place you at a disadvantage. Therefore, students who are forced to forego a semester are advised to wait an entire academic year (Two semesters) before rejoining the LL.B. programme.

It is very likely that students who take a leave of absence for one semester will have to add on an extra semester to their degree in order to complete the missed LLB courses; and students who take the entire year off will have their graduation delayed by a whole year.

HEC Policy

All BA-LLB (Honours) students are mandated by HEC policy to complete at least 10 regular semesters (this includes fall and spring semesters but not summer semesters). Hence, a student may not graduate earlier upon the completion of less than 10 semesters.

Exchange Semesters:

If a student wishes to complete an exchange semester during their LLB years, their highly structured enrollment plan with respect to cores is disturbed. Students are responsible for the timely completion of their graduation requirements. **Additionally, they are strongly discouraged from embarking on exchange semesters during the first year of their LLB phase.**

Contact details:

SAHSOL Coordinator

enrollment.sahsol@lums.edu.pk

SAHSOL Advising Unit

undergradadvising.sahsol@lums.edu.pk

Directed Course Work (DCW)

Students are encouraged to participate in scholarly research and writing project (Directed Course Work "DCW") in the penultimate or final year of their degree. DCW may take the form of an Independent Study, a Directed Research Project (DRP) or a Senior Project (SPROJ). Please note that students are only allowed to undertake one SPROJ during their degree programme,. Students cannot take two separate SPROJs and are restricted to a maximum of 12 credit hours of DCW during the course of their degree.

Both the Independent Study and the DRP span over a single semester, consist of 3000-4000 words (including footnotes), and amount to 1-2 credit hours. They are both graded Pass/Fail. However, the Independent Study must be undertaken alone whereas the DRP may be undertaken by a group. The SPROJ may span over one semester or two, depending on the number of credit hours,, and a 4 Credit Hours SPROJ consists of 6000-8000 words (including footnotes) if it was taken by an individual. The SPROJ can be undertaken by an individual or group of students. The maximum number of students collaborating on a single SPROJ will be two. However, if a group of three is proposed, students must justify this need in their research proposal. A 4-Credhit hours SPROJ for a group of two or three students will consist of 12000 words (including footnotes). The SPROJ is assigned a letter grade. Each faculty member may supervise a maximum of two DCWs per semester.

Although not compulsory, DCW is a valuable opportunity to engage in original research and to prepare a substantial written piece of work, which will enable you to develop transferable skills that are useful in your law career. Most students find that DCW is one of the most rewarding parts of their degree programme. DCW may count as part of the Major Electives or Free Electives.

DCW is predominantly independent work, and each student or group of students is assigned a supervisor to assist them in this process. Please note that the role of the supervisor is not to teach you the topic you have chosen to research, but to help shape your ideas and to give you advice on how to conduct research. Your supervisor will expect you to be organized, self-disciplined and motivated enough to take responsibility for your own work and complete it by agreed deadlines.

The DCW topic is subject to the approval of the supervisor, who may be any member of the Law School Faculty (permanent or adjunct) under whose direction you wish to write the Independent Study/DRP/SPROJ. The following is a suggestive, but by no means exhaustive, list of potential research topics:

- An original Research Project using, for example, a set of case law on a particular legal issue.
- An original research question about a particular legal theory and its critique based on scholarly material or real-world application e.g., use of Hans Kelsen's Pure Theory of Law for the justification of Martial Laws in Pakistan.
- A critical review of the scholarly literature on some aspect of the student's major field e.g., legal reform discourse on gender equality in Pakistan.
- An analysis of a particular statute or provision of law based on legal commentaries, case law and facts e.g., Section 4 of the Muslim Family Law Ordinance 1961 relating to the share of orphaned grandchildren in inheritance.

Planning and Conducting DCW

Important stages in the DCW process include:

1. Choosing a topic:

DCW will consume a considerable amount of your time, so identify a topic (a broad subject area) that sparks your interest, one that you are genuinely committed to exploring. This should be done in the semester prior to beginning DCW.

2. Choosing a supervisor:

Once you have picked a topic, you should select a supervisor based on broad research interests i.e., choose as a supervisor someone whose research interests align with your topic. This should also be done in the semester prior to beginning DCW.

3. Registration:

Once your supervisor has approved your SPROJ/Independent Study//DRP/SPROJ topic, you are required to complete the online DCW registration form on Zambeel.

4. Writing a research proposal:

Submit an initial proposal to your supervisor explaining what you want to research, how you plan to research it, and when you will complete each task. The proposal should specify the following:

- (i) The research question: What is it that you really want to find out – what the specific problem is you want to address/specific question you want to answer
- (ii) A description of the data you will need and identification of the potential sources for obtaining it (e.g., primary and secondary sources).
- (iii) A description of the kinds of methods you intend to use to undertake your research. You may engage with theoretical or empirical research or both. For empirical research, you may employ qualitative or quantitative strategies, or use a mixed methods approach. What you choose will depend on your research question, your preferences, and your skills.
- (iv) Relevant courses and experiences that have prepared you to undertake the project.
- (v) The area of law that your proposal fits into e.g., Constitutional Law, Labor Law, Jurisprudence, Commercial Law, International Law, Islamic Law, Family Law.
- (vi) A timetable for the completion of the project.
- (vii) Division of labor if you are working as a group.

In addition to submitting the online DCW registration form, the research proposal must also be emailed to the Programme Coordinator. The Programme Coordinator may withhold approval of your online form if the research proposal is not received by the deadline.

5. Recommended timeline:

You should aim to meet with your supervisor fortnightly. There should be a preliminary review halfway through your work. Below is a suggested timeline:

- (i) Submission of research proposal along with online DCW registration form.
- (ii) Submission of literature review/revised research questions by the end of week 6.
- (iii) Submission of first draft by the end of week 10.
- (iv) Submission of final draft by the end of week 13.
- (v) Oral defense by the end of week 14.

Your supervisor may choose to assign separate grades for each stage with no less than 75% weightage assigned to the assessment of the final draft.

6. Grading:

In general, all members in a group are awarded the same grade. However, at the discretion of the supervisor, different grades may be awarded to different group members based on objective evidence of differential performance. The supervisor may use presentations, oral defense or other such means in conjunction with the written report to assess performance. If the supervisor chooses to conduct an oral defense, this is done before members of the faculty.

In the 5 years of your undergraduate BA-LL.B. (Honours) degree, advising (academic & non-academic) plays a vital role in shaping not just your academic career, but goes beyond those years into your professional lives as well.

Academic Advising at SAHSOL

The academic advising system at Shaikh Ahmad Hassan School of Law strives to ensure students have access to reliable information and diverse perspectives for making informed decisions about their academic, personal, and professional goals as they progress through each year of their law studies at LUMS. To this end, we offer a holistic network of advising support comprised of staff, faculty, peers, alumni, and other campus and community partners who work in synergy to meet varied and evolving student needs that may be academic or non-academic in nature.

Students are encouraged to explore and utilise all advising resources and support available to them. Students may be asked to attend mandatory meetings with staff and/or faculty advisors for important discussions about their academic progress and plans. To facilitate more meaningful meetings with advisors, students may be required to complete a reflection form with specific topics that are appropriate for that time in their academic career and programme.

A student's thorough understanding of the BA-LLB degree plan and available advising resources is central to ensuring academic success. Students are responsible for:

- Proactively seeking advice from relevant advisors
- Understanding and meeting the requirements of the five-year BA-LLB programme.

- Taking and completing courses in the proper sequence to ensure timely progress toward the degree

Academic Advising for All Years:

All students at SAHSOL have access to academic advising through the following channels:

1. **Academic Advising Staff:** Provide individualised support to students in understanding and upholding university policies, procedures, and expectations. This includes but is not limited to understanding the requirements of the five-year law programme, navigating enrollment cycles, satisfying degree requirements, guidance on pursuing a minor, as well as assessing options to transfer across other degree programmes at LUMS. Advisors can also provide support to students with adjustment to university, personal growth, and career/professional development.

Advising staff also monitor students' academic performance and offer one-on-one support and referral to other campus resources for overcoming any challenges or hardships that may impact students in achieving their academic goals.

To talk to an academic advisor at SAHSOL, email: undergradadvising.sahsol@lums.edu.pk

2. **Programme Coordinator:** Supports students in tracking overall academic progress, academic standing, graduation requirements, and making enrollment plans prior to the enrollment cycles for each semester. Students experiencing delayed graduation, readmission, or semester off must meet with the programme coordinator to ensure timely degree completion. All course enrollment-related queries are handled by the Programme Coordinator.

To talk to the Programme Coordinator at SAHSOL, email: enrollment.sahsol@lums.edu.pk

3. **Faculty Advisors:** Offer field-related expertise, guidance on long-term academic and professional goals, strategies for professional development, and insights on career outlook and pathways. Faculty advising sessions may include discussions on what to do with a law degree, managing expectations and workload in law courses, selecting major electives, when and where to do an internship, and identifying research topics for Directed Coursework options.

For more information about faculty advising, email: undergradadvising.sahsol@lums.edu.pk

4. **Peer Ambassadors at LUMS for Social Support (Pod PALS):** Facilitate academic information sharing, group social support, and coordination within and across batches. Each student is assigned to a Pod that consists of 12-15 students from different batches. Pods are led by a fourth- or fifth-year law student (PAL) who serves as a guide and mentor. Students may meet/communicate with their Pod PALS as a group or individually. Topics of group discussion in a Pod may include understanding enrollment cycles, general study tips for law courses, adjusting to university life such as selecting and managing co-curriculars, and personal/professional interest exploration.

To know more about the Pod PALS programme, email undergradadvising.sahsol@lums.edu.pk

5. **Specialised Workshops and Seminars:** Organised for professional development and/or networking opportunities with alumni, legal scholars, practitioners, and other professionals to help students expand their interests and skillsets as well as to gain exposure to diverse career pathways within law.
6. **Online Resources:** A range of resources are available at <http://portal.lums.edu.pk/advising> and <https://sahsol.lums.edu.pk/> including handouts for major exploration, career planning, and information about support offered by other campus partners.

Academic Advising for Specific Needs

- A. **Additional support for At-Risk students in all years:** Students on academic warning (with a CGPA 2.00 – 2.50) and academic probation (with a CGPA below 2.00) are required to meet with academic advising staff at least twice a semester to discuss their challenges, progress, and any support they need to ensure they are improving their academic performance. They are also encouraged to meet with their PALs and faculty advisor (if assigned one), instructors, and TAs to identify specific areas of improvement.
- B. **First year and sophomores** are expected to meet with Academic Advising staff at least once a semester to discuss their enrollment plans and progress on completion of pre-law requirements. They can also utilise PALs for individual and group support on social life adjustment, adapting to academic rigor and expectations as they transition into the BA phase, and how to chart their own unique path at LUMS. They are encouraged to meet with the Programme Coordinator to understand the requirements and expectations of the LLB curriculum.
- C. **Junior year students** can meet with the Programme Coordinator for understanding the requirements of law curriculum for the three years of the LLB phase, enrollment in law courses, Directed Research Project (DRP) applications, law elective course offerings, and for making alternate plans for degree completion if their graduation is delayed.
- D. **Senior and Super-senior year students** are assigned faculty advisors and are required to have at least one meeting per semester with them to identify and work towards specialized interests within law. Faculty Advisors guide students on Independent Study, Directed Research, and SPROJ topics, internship connections, and preparation for decisions for life post-LUMS such as taking up employment or pursuing graduate studies. Students can also meet with Academic Advising staff for career development such as writing a CV or cover letter and preparing for job interviews.

For any additional information about Academic Advising at SAHSOL, please contact:

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Academic Advisor, SAHSOL

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Official Email: undergradadvising.sahsol@lums.edu.pk

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SYED AHSAN ALI & SYED MARATIB ALI SCHOOL OF EDUCATION (SOE)

SOE Undergraduate Academic Programmes

Since its establishment in 2017, Syed Ahsan Ali & Syed Maratib Ali School of Education (SOE) has actively expanded its undergraduate programme. This has led to the introduction of four minors for undergraduate students: Minor in Education; Minor in Education Policy, Politics, and Governance; Minor in Curriculum, Instruction, and Assessment; and Minor in Inclusive Education. These minors facilitate undergraduate students in diversifying their learning experiences by immersing them in education discourse. Students are provided opportunities to develop a deeper and comprehensive understanding of various education-related topics like social justice in education, teaching and learning strategies, education policy and practice, educational technology, inclusive education, and a host of other pressing and contemporary topics and issues in education. Bridging research, policy, and practice, the undergraduate curriculum integrates academic knowledge with field-based learning in the field of education. To provide practical exposure, SOE partners with various organizations provide opportunities to students to actively engage with and contribute to addressing and solving issues within the education ecosystem. The varied courses in the four minors are designed to provide students with a solid foundation for understanding multifaceted dimensions in the education sector.

The course content is developed with an interdisciplinary mix whereby it draws upon economic, political, social, cultural, and philosophical perspectives to examine fundamental aspects of education, such as equity, reform, inclusivity, diversity, accountability, policy, and advocacy. As students explore these perspectives, they gain insights into the core challenges faced by educators and policymakers in both national and international settings. Towards that end, these minors encourage students to analyze and propose solutions to the current issues and challenges stemming from the complexity surrounding education policy and practice.

1. Minor in Education

The undergraduate minor in Education provides students with a broad foundation in key educational theories, philosophies, and debates. The minor engages students in the social, cultural, and historical dimensions of education across diverse contexts.

1.1. Course and Credit Hours Distribution:

To complete this minor, students must accumulate a minimum of 18 credit hours in the area of education and secure a cumulative GPA of 2.75 in the selected courses.

Students should successfully complete a minimum of six regular courses (two core courses and four electives) in the area of education. Of the four electives, at least three should be at the 300 level or above.

Students pursuing a minor in Education are expected to comply with all university-wide policies and regulations outlined under the Undergraduate Programme Policies and Regulations section of this Handbook.

1. The following two courses are core requirements for this minor (6 credits):

CODE	TITLE	CREDITS
EDU 210	Critical Debates in Education	3
EDU 213	Philosophy of Education	3

2. The remaining 12 credits (or more) for the minor in Education may be completed by taking a combination of the following elective courses, in accordance with the rules stated above:

CODE	TITLE	CREDITS
EDU 212	Sociology of Education	4
EDU 215	Ethics and Education	3
EDU 216	Globalization and Language	3
EDU 218	Education and International Development - Concepts, Theories, and Issues	3
EDU 220	Curriculum, Teaching and Learning	3
EDU 222	The Learning Gap: Critical Issues in Educational Psychology	4
EDU 223	Trauma-Informed Education Systems: Creating Cultures of Support and Change	3
EDU 224	Theories of Child & Adolescent Development in Education	3
EDU 225	Motivation and Learning	3
EDU 226	The Business of Daycare	3
EDU 250	Education in the Pakistani Context	3
EDU 252	Contemporary Social Policy Issues in Pakistan	3
EDU 262	Creating Elites and Delinquents	3
EDU 263	Quantitative Research Methods	3
EDU 272	Educations, Schools and Violence	3
EDU 273	Education, Media and Culture	3
EDU 274	Gender Media and Education	3
EDU 312	Politics of Education	3
EDU 313	Education for Social Justice	3
EDU 314	Education and Development	3
EDU 315	Education in Globalized World	3
EDU 316	Introduction to the Arts in Education	3
EDU 317	Civic Engagement and Global Citizenship Education	3
EDU 318	Introduction to the Arts in Education in South Asia	3
EDU 319	Debating Education Reforms in Pakistan	3
EDU 3102	Exploring [Cultural] Diversity Through the Arts in Education	3
EDU 3103	Educational Inequalities in South Asia	3
EDU 321	Inclusive Pedagogy: Rethinking Teaching, Learning and Assessment	3
EDU 322	Computers, Problem Solving and Cooperative Learning	3
EDU 323	Demonstrative Teaching of Science and Math	3
EDU 324	Effective Teaching and Learning in Higher Education	3
EDU 325	The (Instructional) Core and How to Work it	3
EDU 326	Foundations of Education Technology	3
EDU 327	Technology and Culture	3
EDU 328	Educational Technology and the Learning Sciences	3
EDU 329	Technology in Educational Environments	3
EDU 3202	Train the trainer: Fundamentals of Facilitation for Adult Learners	3
EDU 3203	Designing Immersive Learning Experiences: Student-Centered Instructional Skills Training	3
EDU 3204	Enhancing Inclusion: Exploring Autism & Intellectual Disability	3

EDU 3205	Removing Barriers to Learning in the Classroom	3
EDU 3207	Socio-Emotional Learning	3
EDU 3208	Beyond the Test: Assessment for Learning	3
EDU 3209	Mindfulness and Resilience	3
EDU 3212	Transforming Teaching and Learning through Student-Faculty Partnership	3
EDU 3214	Slow Looking: The Practice of Learning through Careful Observation	3
EDU 3215	Understanding Diversity in Disability	3
EDU 3216	AI and the future of Education and Work	3
EDU 342	Entrepreneurship and Innovation in Education	3
EDU 343	Leadership Beyond Schools	3
EDU 344	Entrepreneurship in Education	
EDU 345	Practicing Leadership	3
EDU 346	Cultivating Authentic Leadership: A journey into Self-Discovery	3
EDU 352	Education Policy Analysis	3
EDU 353	Education and Conflict	3
EDU 354	Comparative & International Education	4
EDU 355	Education and Sustainable Development	3
EDU 356	Education Policy and Practice for Development	3
EDU 357	Planning for Education Development	3
EDU 358	Sustainable Educational Development	3
EDU 362	Monitoring and Evaluation in Public Policy	3
EDU 363	Could Education be Bad for Society?	3
EDU 364	Ethnography of Education	3
EDU 372	Mobile Lives: Im/migration and Education	3
EDU 412	Economics of Education	3
EDU 413	What Does it Mean 'to be Educated'?	3
EDU 422	Behavior Analysis for Effective Teaching	3
EDU 423	Theory and Policy for Teacher Education	3
EDU 424	Embodied Knowing: Slow looking, Emotional Awareness and Somatic Observation	
EDU 425	South Asia from the Margins: Culture and Art Education Among Distant Neighbours	3
EDU 426	Pedagogy: Intersections of the Taught, Written, and Assessed Curriculum	3
EDU 427	STEM Teaching in the AI Era	3
EDU 453	Politics of Education Reform	3

2. Minor in Education Policy, Politics and Governance

This minor provides a strong foundation in education policy, political processes, and governance structures shaping implementation.

2.1. Course and Credit Hours Distribution:

To complete this minor, students must accumulate a minimum of 18 credit hours in this Minor and secure a cumulative GPA of 2.75 in the selected courses.

Students should successfully complete a minimum of six regular courses (two core courses and four electives) in that area. Of the four electives, at least three should be at the 300 level or above.

Students pursuing a minor in Education Policy, Politics, and Governance are expected to comply with all university-wide policies and regulations outlined under the Undergraduate Programme Policies and Regulations section of this Handbook.

1. The following two courses are core requirements for this minor (6 credits):

CODE	TITLE	CREDITS
EDU 210	Critical Debates in Education	3
EDU 352	Education Policy Analysis	3

2. The remaining 12 credits (or more) for the minor in Education Policy, Politics, and Governance may be completed by taking a combination of the following elective courses, in accordance with the rules stated above:

CODE	TITLE	CREDITS
EDU 213	Philosophy of Education	3
EDU 250	Education in the Pakistani Context	3
EDU 3103	Educational Inequalities in South Asia	3
EDU 315	Education in Globalized World	3
EDU 353	Education and Conflict	3
EDU 356	Education Policy and Practice for Development	3
EDU 363	Could Education be Bad for Society?	3
EDU 372	Mobile Lives: Im/migration and Education	3
EDU 412	Economics of Education	3
EDU 453	Politics of Education Reform	3

3. Minor in Curriculum, Instruction and Assessment

The minor in Curriculum, Instruction, and Assessment emphasizes both theoretical and practical aspects of curriculum design, instructional methods, and pedagogy.

2.1. Course and Credit Hours Distribution:

To complete this minor, students must accumulate a minimum of 18 credit hours in this minor and secure a cumulative GPA of 2.75 in the selected courses.

Students should successfully complete a minimum of six regular courses (two core courses and four electives) in that area. Of the four electives, at least three should be at the 300 level or above.

Students pursuing a minor in Curriculum, Instruction, and Assessment are expected to comply with all university-wide policies and regulations outlined under the Undergraduate Programme Policies and Regulations section of this Handbook.

1. The following two courses are core requirements for this minor (6 credits):

CODE	TITLE	CREDITS
EDU 224	Theories of Child & Adolescent Development in Education	3

EDU 426	Pedagogy: Intersections of the Taught, Written, and Assessed Curriculum	3
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- The remaining 12 credits (or more) for the minor in Curriculum, Instruction and Assessment may be completed by taking a combination of the following elective courses, in accordance with the rules stated above:

CODE	TITLE	CREDITS
EDU 213	Philosophy of Education	3
EDU 220	Curriculum, Teaching and Learning	
EDU 222	The Learning Gap – Critical Issues in Educational Psychology	3
EDU 225	Motivation and Learning	3
EDU 325	The (Instructional) Core and How to Work	3
EDU 3208	Beyond the Test: Assessment for Learning	3
EDU 3205	Removing Barriers to Learning in the Classroom	3
EDU 324	Effective Teaching and Learning in Higher Education	3
EDU 3203	Designing Immersive Learning Experiences: Student-Centered Instructional Skills Trainings	3
EDU 3214	Slow Looking: The Practice of Learning through Careful Observation	3
EDU 3216	AI and the Future of Work and Education	3

4. Minor in Inclusive Education

Inclusive Education minor provides students with a comprehensive understanding of both the theoretical foundations and practical aspects of inclusive education. This stream equips students them with the knowledge and skills needed to develop and implement inclusive curricula, pedagogy, and school cultures.

2.2.Course and Credit Hours Distribution:

To complete this minor, students must accumulate a minimum of 18 credit hours in this minor and secure a cumulative GPA of 2.75 in the selected courses.

Students should successfully complete a minimum of six regular courses (two core courses and four electives) in that area. Of the four electives, at least three should be at the 300 level or above.

Students pursuing a minor in Inclusive Education are expected to comply with all university-wide policies and regulations outlined under the Undergraduate Programme Policies and Regulations section of this Handbook.

- The following two courses are core requirements for this minor (6 credits):

CODE	TITLE	CREDITS
EDU 321	Inclusive Pedagogy: Rethinking Teaching, Learning, and Assessment	3
EDU 3215	Understanding Diversity in Disability	3

- The remaining 12 credits (or more) for the minor in Inclusive Education may be completed by taking a combination of the following elective courses, in accordance with the rules stated above:

CODE	TITLE	CREDITS
EDU 213	Philosophy of Education	3
EDU 223	Trauma-Informed Education Systems: Creating Cultures of Support and Change	3
EDU 224	Theories of Child & Adolescent Development in Education	3
EDU 272	Educations, Schools and Violence	3
EDU 313	Education for Social Justice	3
EDU 3102	Exploring [Cultural] Diversity Through the Arts in Education	3
EDU 3204	Enhancing Inclusion: Exploring Autism & Intellectual Disability	3
EDU 3205	Removing Barriers to Learning in the Classroom	3
EDU 3207	Socio-Emotional Learning	3
EDU 353	Education and Conflict	3
EDU 372	Mobile Lives: Im/migration and Education	3
EDU 422	Behavior Analysis for Effective Teaching	3
EDU 424	Embodied Knowing: Slow Looking, Emotional Awareness and Somatic Observation	3
EDU 425	South Asia from the Margins: Culture and Art Education Among Distant Neighbors	3

General Rules

The following rules apply to all minors offered by the School of Education (SOE):

1. Students intending to complete a minor should successfully complete a minimum of six regular courses, carrying 3 credits each (totaling 18 credit hours), through a combination of required core and elective courses.
2. Senior Projects, Independent Studies, or courses carrying fewer than 3 credits do not count towards the minor. Students may, however, enroll in directed coursework under the EDU code, such as Independent Study or Directed Research (1–2 credit hours), under the supervision of an SOE faculty member. These are graded on a Pass/Fail basis and do not fulfill minor requirements.
3. A minimum GPA of 2.75 must be attained in the courses counted toward the minor.
4. At least three electives used to fulfill the minor requirements must be at the 300 level or above.
5. University core courses: Writing & Communication, Pakistan Studies, and Islamic Studies cannot contribute towards the minor.
6. Among the courses that satisfy the In-Group and Out-Group requirements, no more than one can be used to fulfil the minor requirements.
7. A course that is cross listed with another discipline may count toward either a major or a minor, but not both. Students intending to count a cross-listed course toward a minor must enroll under the course code specified in the approved list of minor courses. Only the enrolled course code will be considered for minor requirement purposes.
8. At the beginning of each semester, a steering committee comprising SOE faculty will convene to approve the updated list of elective courses for each minor.
9. A steering committee comprising of SOE faculty will convene at the start of every semester to approve updated elective courses.

10. Pass/Fail courses do not count towards fulfilment of a minor.
11. The minor requirements can be completed within the credit limit of 130/138 by following a carefully chalked course plan and by taking appropriate courses as free electives to count towards the minor. These students might need to take additional credit hours for the completion of the minor requirements.
12. The minor will only be displayed on the final transcript, NOT on the degree.
13. The minor is a look back option and should be declared only at the time of graduation, once the graduation requirements are fulfilled, by submitting the minor form available at <https://zambeel.lums.edu.pk> . A student cannot declare a minor once the GAF has been submitted as the transcript is already finalized and hence cannot be changed.

Contact Resources:

Please contact one of the following administrators for information regarding the undergraduate programmes at SOE: -

Designation	Name	Email ID
Dean SOE	Dr. Tayyaba Tamim	tayyaba.tamim@lums.edu.pk
Director Academic Programmes	Dr. Gulab Khan	gulab.khan@lums.edu.pk
SOE Academics Office	SOE Academics	soeacademics@lums.edu.pk



Administrative Offices & Campus Facilities

ADMINISTRATIVE OFFICES

OFFICE OF THE REGISTRAR (RO)

The Office of the Registrar (RO) handles the academic administration of the University.

Some of the major tasks and functions of this office are:

1. To maintain records and security of student data, academic and personal, using state-of-the-art information management solutions.
2. To develop University wide academic calendar entailing detailed timelines for all academic activities throughout the year.
3. To update and maintain course catalogues for effective and timely execution of student course registration and enrollments.
4. To maintain and implement up-to-date classes' and final exam schedules for smooth conducting of classes.
5. To oversee grading of courses, projects, theses, and dissertations.
6. To convene the University-wide curriculum committees and act as custodian of all policies and procedures of the academic programmes
7. To publish and update the Undergraduate and Graduate Student Handbooks.
8. To process graduation audit and honours & awards at the time of graduation.
9. To issue transcripts, clearance certificates and degrees and provide attestation of documents and process educational verification requests by external organizations and other universities.
10. To lead the Annual Convocation.
11. To liaise with international and national regulatory authorities such as Higher Education Commission (HEC) to enforce and maintain policies and best practices.

Services in point No.9 above may be availed by visiting <https://www.roservice.lums.edu.pk>

In case of other queries, students may email at helpdeskro@lums.edu.pk

OFFICE OF ADMISSIONS

The **Office of Admissions** is responsible for managing the admission process at LUMS. The University seeks to attract students who are not only academically accomplished but also demonstrate the potential to contribute meaningfully to the learning environment at LUMS. Undergraduate admissions are conducted **once a year**, exclusively for the **Fall semester**, and are based **purely on merit**.

Important Information

- **Eligibility:** Students who are currently enrolled at LUMS are **not eligible** to apply for admission to the undergraduate programme.
- **HEC Attestation:** Students who wish to have their undergraduate degree attested by the **Higher Education Commission (HEC), Pakistan**, must fulfill the attestation requirements outlined by HEC. For details, please visit: <https://www.hec.gov.pk/english/services/students/DAS/Pages/Degree-Attestation.aspx>
- **Credential Verification:** In addition to the conditions specified in the LUMS offer letter, students are responsible for meeting the requirements of the following bodies for academic credential verification:
 - **Inter Board Committee of Chairmen (IBCC)**

- **Higher Education Commission (HEC), Pakistan**
- **Pakistan Engineering Council (PEC)**
- Any other relevant regulatory authority

All matters related to **equivalency, attestation, or verification** must be handled by students independently.

OFFICE OF FINANCIAL AID (OFA)

The Lahore University of Management Sciences (LUMS) is committed to making high-quality education accessible to talented students from all backgrounds. The Financial Aid Programme offers a wide range of support options designed to facilitate students who demonstrate both high academic achievement and financial need.

Financial Aid awards are assessed each year, considering academic performance, demonstrated financial need, available resources, and university policies. While LUMS endeavours to provide substantial financial assistance within its available resources, students are encouraged to explore external funding sources to complement the aid provided by the University.

LUMS strives to enable students to pursue their educational and professional goals without financial barriers, reinforcing our commitment to an inclusive and academically vibrant community.

For detailed information on the financial support options available for Undergraduate programmes, please visit the LUMS [website](#).

Types of Awards

The following financial support options are available for Undergraduate Students:

1. Merit Scholarships
2. LUMS Financial Aid
3. National Outreach Programme (NOP) Fellowships
4. SSE Honorific Fellowships
5. External Scholarships

1. Merit Scholarship

LUMS not only recognises students' good academic performance but also distinguishes high achievers by providing them with generous Merit Scholarships. If you are a high achiever, LUMS wants you to accomplish everything you possibly can. Exemplary students are selected to receive LUMS Merit Scholarships based on their outstanding academic performance.

First Year

100 scholarships are to support the academic aspirations of the top-ranked Undergraduate students based on the LUMS admission evaluation.

Subsequent Years

Merit scholarship awards cover partial to full tuition fees and lab charges (where applicable) for one year only and are awarded to the top-ranked students from returning batches who are placed on the Dean's Honour List based on their academic performance. The number of scholarships in each Programme and Batch may vary according to the approved policy of that particular academic year.

Note:

- i. *In case a student qualifies for both financial aid and LUMS merit scholarship, their merit award will be adjusted accordingly.*
- ii. *All these awards are for one (1) year only and cannot be carried forward to subsequent years.*
- iii. *The scholarship will cover 40 credit hours for an academic year.*
- iv. *For students who are on exchange programmes or have transferred schools, should refer to the RO's section of the handbook for placement on the DHL.*

2. LUMS Financial Aid

Financing a student's education is a commitment involving the student, their family and our institution. We at LUMS gear all our efforts towards assisting top talent within our limited resources. Financial assistance is offered to academically distinguished students with demonstrated need. These awards at the Undergraduate level are available in the form of **Waivers** and **LUMS Interest-Free Loans**.

To be considered for LUMS Financial Aid, students must submit their Financial Aid application along with all required supporting documents by the application submission deadlines.

The provision of incomplete or incorrect credentials, or the non-disclosure of relevant information and documents, may lead not only to the cancellation of financial aid but also to the revocation of an admission offer, disciplinary action, or even separation from the degree programme. In recent years, there have been several instances in which the university has taken strict disciplinary action against the individuals involved, reinforcing its commitment to ensuring that financial aid is awarded only to the most deserving students.

This support can cover part or all of a student's tuition and semester registration fees and is assessed annually, considering academic performance, financial need, available resources, and prevailing university policies to ensure ongoing assistance that aligns with each student's circumstances.

Financial Aid fee waiver is not required to be repaid, whilst LUMS Interest-Free Loan will have to be paid back after six (6) months of graduation within a maximum period of five (5) years.

3. National Outreach Programme (NOP) Fellowships

LUMS launched its National Outreach Programme (NOP) in 2001 to broaden access to world-class education for exceptional students from across Pakistan. This prestigious scholarship initiative seeks out academically outstanding individuals with strong potential for leadership and impact. Selected NOP scholars are awarded full tuition support, and a stipend, enabling them to excel and contribute meaningfully to the LUMS community.

The LUMS Financial Aid Award will be subject to the following conditions:

1. Financial Aid Award is valid for one (1) academic year only. Continuation of the award in the subsequent year is subject to the submission of a Financial Aid application, supporting documents and financial need assessment.
2. Students receiving Financial Aid should maintain a full-time status in a regular semester. Failure to do so will lead to the cancellation of the Financial Aid Award.
3. Total Financial Aid for the entire Degree Programme is awarded to meet the minimum graduation requirements according to the following:
 - i. **BA/BSc/BS: 140 credit hours**
 - ii. **BS (Electrical & Chemical Engineering): 145 credit hours**

iii. B.A.LLB: 175 credit hours

4. Financial Aid award can be increased, reduced, or kept the same during the students' stay at LUMS.
5. LUMS reserves the right to physically verify the beneficiary's Home/Business premises.
6. LUMS Interest-Free Loan will have to be repaid immediately in case of Separation/Withdrawal/Cancellation or any disciplinary action.
7. Recipients of all awards must refrain from partaking in any activities that may result in disciplinary action by LUMS. In such cases, LUMS reserves the right to cancel the award.

University reserves the right to amend, cancel or terminate the awarded financial aid in case of any misrepresentation or incorrect information provision. Misrepresentation may also lead to termination from the programme.

When to Apply for Financial Aid

First Year

Applicants who indicate their intention to apply for LUMS financial Aid through the Online Admission Application, submit their admission application and pay the required application processing fee by the deadline are granted access to the financial aid application. To be considered for LUMS financial aid upon admission, applicants must submit a complete financial aid application along with all required documents by the specified deadline.

Subsequent Years

Financial aid at LUMS is reviewed annually. Both current recipients of any type of financial support (such as Tuition Fee Waivers, NOP Fellowships, Merit Scholarships or Interest-Free Loans) and students not previously receiving aid are eligible to apply for need-based financial assistance during the designated application period each year.

The application process begins at the start of December each year, when the Office of Financial Aid (OFA) notifies students to submit the required forms and supporting documents by the due date. Strict adherence to the deadline set by OFA is essential; applications submitted after the deadline may not be considered.

Current recipients of any form of financial support must reapply by the specified deadline each year and submit updated information regarding their family's financial circumstances. Timely and complete submission of the application and all required documents is essential to maintain eligibility.

4. SBASSE Honorific Fellowship

The Syed Babar Ali School of Science and Engineering has established Fellowships for Undergraduate students in the basic sciences (Biology, Chemistry, Mathematics, and Physics). These Fellowships are named after distinguished academics, teachers, practitioners, and scientists who have made distinct contributions to the learning of science and maths.

These Fellowships are created from a generous donation received from Packages Limited, honouring the 90th birthday of the Founder of the School, Syed Babar Ali. The Fellowships are aimed at bolstering interest in fundamental science and incentivising students to major in basic sciences (Physics, Chemistry, Biology and Mathematics). The Fellowships will be awarded annually to the top eight (8) candidates (two per major) by the school for a duration of three years.

The rules of the Fellowship are given below:

- To qualify for the fellowship, students must be among the top 8 (2 each) ranked individuals during the major declaration/allocation process from the four basic sciences.
- Fellowship recipients are not allowed to switch majors outside of the specified four subjects throughout their undergraduate studies.

- The fellowship recipient is required to maintain a minimum CGPA of 3.5 with a workload of 30 CHs per year [maximum limit 36 credit hours].
- If any candidate in a batch does not meet the minimum eligibility criterion (i.e., CGPA of 3.5), the award will be transferred to the next eligible and highest CGPA candidate in the other batches.
- Distinguished fellows will not receive additional funding from LUMS exceeding 50%.
- The fellowship will be granted for a three-year period, with the addition of a new batch every year.
- Only those candidates are eligible who have not received a 50% or higher scholarship through other financial support like merit and LUMS financial aid.
- Also note that CGPAs obtained by factoring in Pass grades obtained by converting letter grades under the Pass/No Credit or Pass/Fail policies will be excluded from the eligibility for this fellowship.
- Students enrolled in the Economics-Maths programme will not be eligible.

5. External Scholarships

LUMS collaborates with various donors to facilitate students by offering a range of available external scholarships to support students striving for academic excellence. To be considered, students must meet **both** the eligibility criteria set by the Donor organization and LUMS.

Student Support Services by OFA

Applying for financial aid may be a new experience for you; however, we at OFA are with you every step of the way and encourage you to reach out to us for assistance or clarification. If you face difficulty in understanding any part of the application, and/or want to discuss any facet of your case, you can approach us through the following available resources.

- **Live Web Chat:** which is provided at the lower-right corner of the application and is available during office hours from October to April.
- **Helpdesk:** available at helpdeskofa@lums.edu.pk, which serves as a one-stop shop for any detailed queries that you might have.
- **In-person meeting:** that can be set up with a financial aid representative from Monday to Friday within office hours. To schedule a meeting, please fill in the [Appointment Form](#).

Fee Deadline Extension

Requests for Fee Deadline Extensions are processed by the Office of Financial Aid (OFA). Students who are unable to pay their university dues, due to financial constraints or any other reason, can apply for the said facility.

The required form is available at Zambeel, at the navigation given below, during the fee payment period.
Log into Zambeel >> Self-Service >> Apply Fee Extension/Instalment

Note: *This is only a summary of the information. The complete terms and conditions of any financial support will be outlined in the official Financial Arrangement Letter issued to the recipient and should be reviewed carefully.*

OFFICE OF FINANCE

The Finance Department handles all financial matters related to the students along with University's Student Financials', Account payables, Taxation, Treasury, Financial Reporting, Budgeting and Planning.

Student Financials' specifically deals with financial matters pertaining to the students' fee/hostel/charges/final settlements, student loans and maintaining of student's individual accounts etc.

Key Services

Finance Department is responsible for:

- Collection of the tuition fee and on-campus residence charges
- Issuance of Vouchers
- Payment of refunds
- Handling general fees and payment inquiries
- Student account clearance upon graduation/withdrawal and refund of security
- NOP/ PhD Stipend payments
- Taking care of financials related to student clubs and societies.
- Student Loan Recovery

Fee Structure

- Tuition Fee at LUMS is based on the number of credit hours taken in a semester.
- Students are responsible for buying their own books and other reading material.
- For all undergraduate programmes at LUMS, a student is required to take at least 12 credit hours per semester to acquire full-time status.
- However, the credit hours requirements in the first year varies amongst undergraduate programmes due to its specific design, therefore the tuition fee amount also varies according to the number of credit hours requirements in each programme. The program-wise full-time credit hours requirements for first-year students are as follows:
 - SBASSE first year students are required to enroll in minimum 18 credit hours in Fall and 16 credit hours in Spring semester respectively whereas Summer semester is optional.
 - SDSB first year students are required to enroll in minimum 17 credit hours in Fall and 16 credit hours in the Spring semester respectively whereas the Summer semester is optional.
 - MGSBSS and SAHSOL first year students are required to enroll in minimum 16 credit hours each in Fall and Spring semesters respectively whereas Summer semester is optional.

The School wise detail of tuition fees for the year 2025-2026 for first-year students is as follows:

Fee for FY 2025-2026

The fee structure for 2025-2026 has already been shared with the students at the time of admission through fee information document. Furthermore, LUMS website can also be referred to for fee structure details of respective undergraduate programmes. Fee structure of FY 2025-2026 is given below:

Fee Structure for First Year/Freshman - FY 2025-26

Semester	Fall – 2025	Spring – 2026	Summer – 2026 (Optional)
	PKR	PKR	PKR
Fee Per Credit Hour	41,700	41,700	-
Credit Hours (Tentative)	16	16	-
Admission Fee	164,140	-	-

Tuition Fee	667,200	667,200	-
Semester Registration Fee	52,160	52,160	-
SSE Fee (for BS-SSE only)	125,100	125,100	-
General Security	62,300		-
Pakistan Bar Council Reg. Fee (for BA-LLB only)	3,000	-	-

Fee Structure – Returning Students FY – 2025-26

Semester	Fall - 2025	Spring – 2026	Summer – 2026 (Optional)
	PKR	PKR	PKR
Fee Per Credit Hour	40,110	40,110	-
Credit Hours (Tentative)	16	16	-
Tuition Fee	641,760	641,760	-
Semester Registration Fee	52,160	52,160	-
SSE Fee (for BS-SSE only)	125,100	125,100	-

In case of further fee related queries, kindly contact at helpdeskfinance@lums.edu.pk.

Tentative Fee Payment Deadlines

Fall Semester : August 04, 2025 (for Returning Students only)
Spring Semester : December 19, 2025
Summer Semester : June 19, 2026

All the above-mentioned payment deadlines are tentative and subject to change, and the final dates will be communicated to the students at a later stage.

All paid fee vouchers (student copy) should be kept by students during their stay at LUMS.

Terms and Conditions

- Applicants must pay fee within the deadline as stipulated in the fee voucher.
- Fee can be paid at any branch of designated Banks as mentioned in the fee voucher through bank draft, pay order or cash, however, students can also pay fees online through credit/debit cards by visiting <http://pay.lums.edu.pk>
- Fees for Transfer and Visiting students are charged according to the standard per credit hour rate.
- Auditing students are charged 20% of the tuition fee for each credit hour taken after attaining full time active status in the respective semester. However, for external students who want to Audit a course at LUMS, they will be charged 30% of the tuition fee for the credit hours of the course being audited.
- The summer internship programme is a credit-bearing activity and contributes toward the graduation requirement. Therefore, the students must pay for all credit hours enrolled against their Summer Internship.
- Once registered, students can access their account online through Zambeel for inquiry of their account balances.

- University fee is usually announced once every year; however, university fee is subject to change without prior notice.
- In case of non-payment of dues within the deadline, the provisional semester course enrollment can be wiped out and the student will not be eligible to attend the ongoing semester.

Finance department will send an email to students for reminding fee and related important timelines before the start of each semester, which includes:

- Tuition and Hostel Fee voucher generation date.
- Voucher payment deadline.
- University reserves the right to wipe-out course enrolment in case of non-payment of university dues.
- Fee refund policy along with the relevant deadlines.

Fee Refund Policy applicable to all Undergraduate Programmes FY 2025-26

Suspension:

- If a student is suspended from the semester by the University for academic reasons, and has deposited the dues for the next semester, all such dues deposited will be refunded.
- If a student is suspended from the semester due to disciplinary reasons or reasons other than academic, the dues deposited by him/her for the current semester will not be refunded. However, if for some reason, the decision is delayed till the next semester and the student pays the dues for the next semester, such dues will be refunded as per the table below.

Semester Withdrawal / Course(s) Drop & Swap:

- In case a student wishes to drop/swap course(s) then the following refund policy will apply.
- In case a student wishes to withdraw from the semester, he/she must inform Registrar's Office (helpdeskro@lums.edu.pk) in writing. Upon approval the following refund policy will apply:

Fee Component	Deadline	Amount of Fee Refund
Admission Fee	Non-Refundable	
Admission Security	Fully Refundable	100%
Tuition Fee, SSE fee, Semester Registration Fee (Fall / Spring Semester)	Before the commencement of classes	100%
	Up to first seven (7) days of the commencement of classes	100%
	From eight (8) – fifteen (15) days after the commencement of classes	50%
	More than fifteen (15) days after the commencement of classes	Non-Refundable
Summer Semester Fee	Non-Refundable	
Pakistan Bar Council's registration fee (for BA-LLB)	Non-Refundable	

Hostel Fee	Before first day of the commencement of classes	100%
	After first day of the commencement of classes	Non-Refundable

- The above fee refund policy shall apply in case of suspension, semester-off/withdrawal and course(s) drop/swap only.
- Freshmen cannot take their First Semester off or drop/withdraw from all courses.
- The University reserves the right to change its policies and fee structure at any time.
- Amount will be refunded within three weeks on receipt of refund application along with all required documents.
- In case of any query regarding fee, please contact at helpdeskfinance@lums.edu.pk

Online Clearance

Students who withdraw or separate from LUMS at any time during the year will apply for online clearance using Zambeel self-service. Upon successful online clearance from all respective departments the student is entitled to get his/her final settlement done from LUMS as per the refund policy enlisted on the website.

At the time of graduation, while submitting form for online clearance, students are given option either to take refund of their securities/excess balances OR donate that amount to LUMS.

For refund, student needs to provide the following information to the Finance Department:

- Account Title (Students' or Parents' personal account)
- Complete IBAN # (24 digits)
- Bank Name

On-Campus Residence / Hostel Fee for FY 2025-26

Residency Type	Fall - 2025	Spring – 2026	Summer - 2026
	PKR	PKR	PKR
Hostel Fee Double Occupancy	91,790	91,790	37,796
Hostel Fee Triple Occupancy (Bigger room)	66,820	66,820	27,510

Terms and Conditions:

- On-campus residence charges must be paid within the deadline as stipulated in the voucher.
- **By making the payment, applicants are deemed to accept the terms and conditions of on-campus residence charges and refund policy as mentioned above.**
- In-house residence facility during all semesters shall be provided depending upon the availability of space, and the fee shall be charged on a semester basis.
- For specific residence queries, kindly contact residence team at residence@lums.edu.pk

Loan Recovery Section

LUMS offers a substantial amount of financial aid and scholarships, and although scholarships and financial aids in the form of grants are always preferred as they do not require repayment, but even after awarding scholarships and financial aid offered as grants, many students still face a gap in paying their university dues which may require a student loan. Students at LUMS receive loans on special terms and provisions with zero interest, that makes it more affordable and manageable for young university-bound students.

The Loan Recovery section facilitates repayment of these loans from students once they become due. The section may assess any deferred payment or repayment grace period options following graduation in order to relieve any evident financial pressure on these students. All such cases are assessed, verified and processed through the Loan Recovery section.

Contact Information:

Finance Department, Allied Bank Hostel (M-7) basement, LUMS, Tel: +92 423 5608000

Area	Contact Person	Contact Information	Ext.
Student Fee Queries	Madiha Jaffri / Ehtesham Umer / Nida Azhar/ Ifraheem Bashir	helpdeskfinance@lums.edu.pk	4406/8151/4435/ 8222
Student Loan Queries	Kashif Ali	kashif.a@lums.edu.pk	2192
TA Payments	Bilal Shakeel	bilal.shakeel@lums.edu.pk	4440
Student Societies Related Queries	Ayesha Akbar	ayesha.akbar@lums.edu.pk	4429

NATIONAL OUTREACH PROGRAMME (NOP) CENTRE

Creating Tomorrow's Leaders: The National Outreach Program (NOP)

LUMS, as a leading university, is dedicated to investing in Pakistan's future by nurturing tomorrow's leaders. The National Outreach Program (NOP) lies at the heart of this goal, with a twofold mission: eliminating educational inequality by creating a diverse, inclusive, and sustainable learning environment and fostering a movement of capable, diverse leaders committed to a prosperous Pakistan.

In keeping with its vision, this exceptional programme is dedicated to providing unparalleled learning opportunities to the brightest minds in Pakistan, regardless of their financial means.

NOP's Nationwide Reach and Diversity

• Outreach

NOP inducts students from across the country from different ethnicities, beliefs, and backgrounds. Recruitment into the NOP begins with the Outreach Team working tirelessly to visit more than 250 schools and colleges nationwide, conducting introductory sessions, participating in educational expos, partnering with different government and non-government organizations and encouraging students from different backgrounds to apply for the pre-admission Summer Coaching Session (SCS). After carefully reviewing and selecting applications, successful individuals are extended invitations to partake in the enriching Summer Coaching Session (SCS). This immersive academic experience serves as a preparatory platform for aspiring candidates aiming for admission at LUMS, providing them with a glimpse into the vibrant university environment. Upon the completion of the summer coaching, participants embark on a journey of continued engagement through digital resources and sessions designed to sustain their momentum over a span of six months. As a result, they are adeptly steered towards for applying to LUMS Undergraduate Admission and navigating the entrance examination process.

Scholars admitted to LUMS Undergraduate programmes hail from an ever-increasing number of cities each year. This growing diversity is a testament to the scholarship's patriotic spirit.

- **Communications**

NOP Communications disseminates information to potential NOP Scholarship applicants using various methods, including traditional means like flyers, posters, and newspaper advertisements. In addition to conventional methods, the Centre uses digital marketing, leveraging the era of digital consumption to reach thousands of students across the country. To spread the word and share success stories through NOP graduates in a series of podcasts, interviews and written testimonials. The Centre consistently communicates with candidates throughout the pipeline, providing updates and guidance until they become NOP Scholars and beyond. NOP commits to excellence in communication and a willingness to adapt to the ever-changing advertising and marketing landscape.

- **A Rigorous and Prestigious Fellowship Programme**

The NOP goes beyond being a scholarship; it is a prestigious fellowship programme and a pragmatic model of diversity, inclusion, equity, sustainability, growth, and accessibility. This comprehensive programme that has been transforming lives and uplifting Pakistani society for over two decades. Selected candidates undergo thorough training and assessment in coping with LUMS' academic rigors. NOP scholars engage with various enrichment, enhancement, and skill-building resources during their studies, contributing to the programme's prestige.

Giving Back: A Core Principle

Central to NOP is the principle of giving back. Scholars are encouraged to giving back to the community, whether on campus or in their hometowns, both during their studies and after graduation. Alumni are encouraged to mentor current students and engage in outreach endeavors across Pakistan. To cap it all, NOP is not just an opportunity to access world-class higher education, but a prophecy of trickling down the knowledge, essential to make Pakistan a prosperous country in the times ahead.

Recognition and Achievements

Over the years, NOP has gained numerous international awards, reflecting its unmatched stature within the country and the region; the most recent being in 2021, where the programme was awarded the Global Council for Advancement and Support of Education (CASE) Platinum Award in the "Best Practices in Diversity, Equity, and Inclusion" category. To date, NOP has inducted over 1560 scholars and produced more than 1170 graduates, many of whom have gone on to receive international scholarships at renowned universities and made a significant impact in their communities and beyond.

NOP Alumni: Impactful Change-Makers

NOP alumni form an ever-growing fellowship of leaders driven by the desire to build stronger communities and a progressive nation. They are making their mark in competitive job markets, entrepreneurial initiatives, and academia, both in Pakistan and globally.

NOP scholars benefit from LUMS' multicultural environment, capable faculty, enlightening studies, rich campus life, and exceptional NOP-focused opportunities. By joining the most rigorous university and program in the country, they ascend to the pinnacle of higher education, and their personal transformation lays the foundation for their social contributions.

Support at LUMS & Collaborations

Since its establishment, the NOP Centre has collaborated with various internal and external partners to support NOP scholars. This support includes pre-orientation sessions, counselling, workshops, and regular communications with NOP scholars and alums as well as the Student Success Initiative (read more below). We aim to continue supporting Pakistan's brightest minds, who will ultimately become the pillars of our country's future. For any assistance, the LUMS NOP Centre practices an open-door policy and students are welcome to visit during **office hours (8:30 am – 5:00 pm)** from Monday to Friday at the NOP Centre located on the 2nd Floor of the PDC Building or can write to us at helpdesknop@lums.edu.pk.

NOP STUDENT SUCCESS INITIATIVE

(A Joint-Collaboration between the NOP Centre and the Office of Academic Advising and Student Success)

Goals of the NOP Student Success Initiative

The SSI is a collaboration between the NOP Centre and the Office of Academic Advising and Student Success that seeks to combine the expertise of the two offices for a shared objective: plan, develop and implement programs for diverse student populations including ~ 350+ NOP scholars and increasingly other student populations. The NOP Student Success Initiative launched in 2020, was built on the philosophy of longstanding programs of the Admissions Office and NOP Centre including pre-semester workshops for first years and a dedicated NOP Student Counselor and piloted many of its programs with the same student population. This collaboration aims to develop programs and initiatives directed towards enhancing student experience on campus. The Initiative further collaborates with other offices across campus (CSO, IST, OSA, and the four schools etc.) on a regular basis on specific projects. Key services and activities include the following:

- **Student Counselling and Vulnerable Student Management:**

A dedicated NOP counsellor, located in the NOP Center (PDC building, 2nd floor), provides advice and support to students on any issue impacting their LUMS experience (e.g., homesickness, substance use/addiction, stress, social disconnection, time-management, adjusting to university life, interacting with the opposite gender, self-confidence, managing relationships at home/university, harassment, financial challenges, or any other aspect of their life. An important and noteworthy aspect of this counselling is that information shared with the counsellor is handled with utmost respect and discretion, to protect student privacy and to provide a safe environment. To set an appointment, students can reach out to Sadia Babar at sadia.babar@lums.edu.pk

- **Mentoring Programmes for all years:**

All first-year NOP scholars are paired with an NOP peer mentor from the junior or senior class. Sophomore year students meet their NOP counselor for dedicated academic and wellbeing planning. For students in their junior and senior year, they have the opportunity to be mentored by respected community members and alumni respectively. In all mentoring programmes, students are expected to remain engaged and responsive to their assigned mentors, share issues, and develop strategies for improving their experience at LUMS and beyond.

- **Peer Tutoring**

As part of the enrichment opportunities, campus-wide academic tutoring services are available to the NOP scholars, comprising of tutors holding regular office hours and group sessions throughout the year

and assist students with skills like verbal communication, class participation, critical thinking, foundational math skills, presentations, writing, career-planning, wellbeing management etc.

- **Workshops, panels, and events**

Throughout the year, the NOP Student Success Initiative organizes workshops, panels and events with faculty, staff, alumni, and other experts. An event to particularly look out for is the **faculty lunch series**, where students can go out for a fully funded lunch with faculty. These various programmes facilitate over a diverse range of topics including study tips, career readiness, graduate schools, as well as skills like writing and communication, etc. These sessions allow NOP scholars the opportunity to connect with experts and learn from their experiences.

- **Access Pathways & Communications**

Various content is designed for the NOP Center's webpage, NOP Facebook page, weekly email newsletters and the SSI Instagram to keep students informed and up to date regarding various opportunities created by SSI.

Contact Information & Location

The NOP Student Success Initiative can be contacted at helpdesknop@lums.edu.pk or +92-42-3560-8000 Extension 2179 (NOP Centre) or studentsuccess@lums.edu.pk (Office of Academic Advising and Student Success, Extension 2154) for any information about the Initiative's various programmes or to give suggestions for additional programmes and resources. Students can also walk into the NOP Centre, located on the 2nd Floor of the PDC Building, and the Student Success Office, located inside the academic block, REDC side entrance, at any time during regular office hours Monday-Friday 8:30 am – 5:00 pm.

OFFICE OF ACADEMIC ADVISING AND STUDENT SUCCESS

Goal of Advising At LUMS

Students at LUMS have a range of options and opportunities available to them, as detailed in this Handbook. The goal of advising is to ensure that all students have access to appropriate support and information needed to facilitate informed decision-making. It is then up to the student to make the most out of these resources and support to optimize their undergraduate experience.

Mechanisms of Advising

Each school at LUMS has designed an advising system that seeks to provide students with the appropriate information and support. Depending on the school, this advising system may involve faculty advisers, staff advisers, Peer ambassadors, group sessions/workshops and online resources. Further, most schools have different advising-expectations and advising-supports depending on the class year (first-year, sophomore, juniors, senior, super-seniors).

The Role of the Office of Academic Advising and Student Success:

The Office of Academic Advising and Student Success (OAASS) is a central university office that works closely with schools as a thought-partner as well as a standard-setting and capacity-building partner. More specifically, the Office works as a thought-partner with each school's Dean and Advising Unit staff to: i) get input from stakeholders (students, faculty, staff and alumni); ii) identify university-wide standards and goals for advising at LUMS; iii) build capacity within each school's advising system to meet these standards and goals and iv) monitor advising at LUMS to ensure these standards/goals are consistently met.

The Advising Website:

The office has collaborated with Career Services Office and Advancement/Alumni Relations to create various digital resources on exploring majors, careers, and graduate studies, among other topics. These resources are available at: <https://advising.lums.edu.pk/>

Contacting the Office of Academic Advising:

The first point of contact for advising issues should be school advising staff. The details of each school's undergraduate advisement structure are given within the sections for each school within the Handbook. For any issues in connecting with school advisers, or for suggestions for the advising system at LUMS, students, faculty, and staff can email the Office of Academic Advising and Student Success at advising@lums.edu.pk.

Student Success:

The goal of Student Success is to improve student experience on campus and beyond by enhancing programming and support at LUMS. The Student Success team works towards this goal by identifying unmet student needs and addresses them by collaborating with campus-partners on new initiatives. For example, in 2020, the Office of Academic Advising and Student Success partnered with the NOP Centre to create the NOP Student Success Initiative. This joint initiative collaboratively develops and implements a range of programmes for the benefit of the NOP community and other student populations. Details about this Initiative can be found under the NOP section. Other examples of Student Success contributions to the campus include support for greater peer tutoring across campus by collaborating with the four schools, various skill-building programs, events and resource development relevant to student experience on campus. Student Success also works to strengthen student partners at LUMS by hiring and training them as well as supporting their managers to troubleshoot concerns. If you have ideas for improved student support on campus, you can contact the team at studentsuccess@lums.edu.pk

OFFICE OF STUDENT AFFAIRS (OSA)

The Office of Student Affairs (OSA) is committed to enhancing the LUMS student experience through a variety of programs designed to promote well-being and personal growth. OSA oversees an array of student-centric initiatives geared towards holistic wellbeing and individual growth. These initiatives include student-led societies, student support services, health and wellness programs, and career services. The goal is to cultivate a vibrant and inclusive community where every student feels connected and supported. The dedicated team at OSA consists of experienced administrators, counselors, advisors, and coordinators, all of whom are passionate about helping students thrive academically and personally. OSA is available to answer questions and address concerns throughout students' time at LUMS. The OSA office is conveniently located in the Academic Block and is open Monday to Friday from 9:00 a.m. to 5:00 p.m. Students can also reach out to OSA via email at osa@lums.edu.pk. OSA encourages students to explore the resources and opportunities available and to actively engage in campus life. Participation in OSA's events and programs enriches the LUMS experience and contributes to overall student success. Visit OSA to discover the support and opportunities that await you and let us help make your time at LUMS both memorable and fulfilling!

Student Support Services (SSS)

The Office of Student Support Services (SSS) at LUMS provides guidance, support, and administrative assistance to students in various domains. SSS governs its operations based on campus policies as voted by the university-wide Undergraduate Curriculum Committee (UGCC), the Graduate Program Committee (GPC) and the University Council (UC).

Below are the details of key services the office provides:

Undergraduate Students Orientation: Each year, the SSS team organizes and coordinates the Orientation Program for incoming undergraduate students. Designed to support a smooth transition into university life, the programme helps students settle in, build connections, and familiarize themselves with key academic and support resources available on campus.

Missed Instrument Petitions: The team supports students who have missed an academic instrument due to unforeseen circumstances. For further details, please refer to the handbook section titled "Make-up Policy for Graded Instruments,"

Vulnerable Students Support and University Exceptions: SSS provides support to students experiencing serious health challenges or extenuating circumstances that require university intervention. This support includes, but not limited to, requests for enrolling in less than 12 credit hours, course withdrawals, semester withdrawal or rejoining, conditional approval for continued enrollment and conditional rejoining after a semester withdrawal. For further details, please refer to the relevant sections of the student handbook.

Support to Central Disciplinary Committee (Non-Academic) and Students undergoing the Disciplinary Process:

The DC Support Unit assists the Central Disciplinary Committee, which handles non-academic violations of the Student Code of Conduct. This support spans the entire process—from case investigation to decision communication. The unit also provides guidance and assistance to students undergoing the DC process. Additionally, it manages the central Community Service Penalty Implementation System, which includes advising students on their assigned service, coordinating with relevant offices, and tracking the completion of penalties. For further details, please refer to the "Student Code of Conduct – University Disciplinary Procedures" section in the handbook.

Other Supports: The office also helps graduating students with the university clearance process, manages address change requests, and connects students with other university support services such as School Advising Units (AU), Counselling and Psychological Services, LUMS Medical Center, Office of Accessibility and Inclusion, etc. Besides this, the SSS provides feedback to the Academic Standing Committee regarding readmission cases or students seeking policy exceptions.

SSS Office Location: Academic Block, out-gate entrance, first office on the left.

Contact Information: For petitions, please email petitions@lums.edu.pk. For disciplinary matters, please email dc@lums.edu.pk. For withdrawals, policy exceptions and other support, please email osa@lums.edu.pk.

Case Coordinator and Crisis Response Team for student facing severe circumstances

The Office of Student Affairs has a **Case Coordinator** who serves as a central point of contact for students experiencing a major crisis. The Case Coordinator provides individualized guidance, helps students navigate university processes, and connects them with appropriate campus resources. They work closely with Counselling and Psychological Services (CAPS), the LUMS Medical Centre (LMC), the Office of Accessibility and Inclusion (OAI) and all schools to ensure that students receive well-coordinated and comprehensive support.

Extremely complex cases are further escalated to an ad-hoc **Crisis Response Team** (constituted by Dean OSA and comprising key units/ personnel relevant for the specific case). This team coordinates immediate support as required by circumstances.

Career Services Office

The Career Services Office (CSO) plays a central role in providing career guidance and supporting post-graduation placements across LUMS. While CSO serves the majority of the student body, some schools also have dedicated career support staff who work in close coordination with us:

Office	Whom They Support	Contact Information
Career Services Office (CSO)	All students	cso@lums.edu.pk Office of Student Affairs (Main Entrance facing the out-gate, Academic Block Building)
MGSHSS Career Center	MGSHSS undergraduates	mgshss.careers@lums.edu.pk Outside MGSHSS Dean's Office, 1st Floor, Academic Block
SDSB Student Placement Office (SPO)	All SDSB graduate students	spo@lums.edu.pk 3 rd Floor, SDSB Building
SOE Placement Office	All SOE graduate students	Saad Khalid: khalid_muhammad@lums.edu.pk Office of Partnerships and Placements, 3 rd Floor, Library Building

You can book an appointment with a career counsellor by emailing the relevant contact details above. If you are unsure about who to contact, email cso@lums.edu.pk and you will be guided to an appropriate resource.

Additional Career Guidance Resources:

There are other career guidance resources that you may consider leveraging for career support:

Faculty	Reach out to your respective school's and program's faculty for specific queries
Other Resources	Peer tutors, senior year students & alumni (in addition to online research and personal networks).

Stay Connected:

To get updates regarding CSO events, activities, and opportunities:

- Lookout for emails from cso@lums.edu.pk
- Stay updated via CSO Portal: connect.lums.edu.pk (students can self-register)

What We Can Help You With

Career staff are here to help you in navigating jobs, graduate study, entrepreneurship, and any other post-graduation pathway you are considering. They can help you through:

- **Career Exploration:** Understand your career options, even if they fall outside your major. We'll help you assess your interests and explore new directions.
- **Mentorship:** Connect with industry professionals and LUMS alumni who can offer personalized career advice.

- **Career Readiness:** Get guidance on building strong resumes, writing impactful cover letters, , navigating internship/job interviews, strengthening your employability through appropriate skill-building, and more.
- **Opportunities (job and internship search):** Receive guidance and support to find internships and full-time roles aligned with your career goals.

What to Look Out for: Events and Resources

Here is a list of prominent activities/events that CSO organizes for LUMS students, to ensure that they are prepared for their careers, and get the best avenues to connect with industry experts. Please note that this list is not exhaustive and there are many other programs that CSO organizes for students.

Support Service	Details
Career Exploration and Readiness Workshops	Information sessions with industry experts, offering an opportunity to network and learn about key topics. They occur throughout the year and are open to all students and alumni.
Online Mentorship Sessions	Virtual sessions with professionals and alumni across sectors, especially during the summer, to support exploration and networking
Alumni Mentorship Program	Connect with LUMS alumni for personalized career guidance and expert advice as you navigate your career journey. Email csol@lums.edu.pk if you would like to connect with an alumni mentor.
Career Peer Tutors	Trained student mentors available to help with CVs, cover letters, job search strategies, and interview preparation. Accessible throughout the year.
Mock Interviews	Practice interviews conducted by CSO staff, alumni, or employers to help you prepare for real interviews with feedback. Available year-round.
Recruitment Events & Organization Visits	Employer-led sessions, hiring drives, and on-campus visits by organizations to recruit for internships and full-time roles. Most active between December and May.
School-Specific Networking Events	Events organized in collaboration with schools to connect students with field-specific professionals. Timing varies by school.
Annual Career Fair	A major campus event each January/February bringing together 200+ companies for networking, internships, and job opportunities. Open to all students and alumni.
Customized Job Search Support	One-on-one support for final-year students and recent graduates actively seeking employment. Tailored guidance based on individual goals.
Internship & Job Listings	Curated opportunities shared regularly via email and on the CSO Portal.
CSO Online Jobs Portal	A centralized platform to explore job/internship postings, sign up for events, and access career resources. Students can self-register: connect.lums.edu.pk

RECOMMENDED ROAD MAP FOR YOUR CAREER

First Year: Discover majors and career paths

- **Get Started:** Follow CSO on social media | Attend events & workshops
- **Meet Us:** Email CSO (cso@lums.edu.pk) to understand options
- **Meet your Career Peer Tutor:** Get advice from a trained senior
- **Know Yourself:** Do a self-assessment | Identify strengths & skill gaps
- **Explore:** Review handouts (advising.lums.edu.pk/career-exploration)
- **Engage:** Join student societies | Practice teamwork & communication

Second Year: Skill-building and research

- **Make a resume and cover letter:** Meet CSO advisors & peer tutors (email cso@lums.edu.pk)
- **Build a Profile:** Create LinkedIn | Start informational interviews
- **Research:** Review career options | Map out key skills
- **Explore internships,** study abroad, volunteerships
- **Develop Skills:** Join workshops | Take on responsibilities in societies

Third Year: Focus, act and experiment

- **Refine Plans:** Meet CSO to map your action plan
- **Explore Options:** Research careers | Prep for grad school
- **Apply for internships:** Build your professional portfolio
- **Practice Interviews:** Join mock interviews with alumni
- **Expand Network:** Attend fairs, mentorships, employer visits
- **Be Visible:** Upload resume on Connect Portal

Final Year: Apply

- **Meet CSO:** Finalize job/grad school plan | Track applications
- **Prepare Materials:** Tailor resume, cover letters | Build references
- **Apply Actively:** Use Connect Portal, CSO emails | Start in Fall
- **Stay Sharp:** Attend mock interviews, networking events
- **Follow Up:** Engage with contacts made during previous years
- **Have a Plan A & B:** Prioritize industries/roles | Prepare for a back-up

* For SAHSOL program: You can expand your mapping and implementing activities for sophomore, junior year, and senior year, whereas use super senior year for launching the career.

1. On-Campus Residence

The Office of Student Affairs (OSA) supports the academic mission of LUMS by providing a well-maintained residential environment for learning that respects and appreciates individual differences and promotes a sense of community. It deals with all aspects of on campus residence including student housing, accommodation queries, room change requests, repairs and maintenance. The Housing staff ensures that students have a safe and comfortable environment and enjoy their on-campus residence.

LUMS Hostel Accommodation Policy

LUMS offers a limited number of on-campus hostel accommodations each academic year. This facility is primarily intended to support out-of-city and international students. All allocations are subject to availability and adherence to university housing rules.

Eligibility and Priority Criteria

Accommodation is offered based on the following priority order:

1. Out-of-city undergraduate students in the following order:
 - a) Freshman
 - b) Sophomores

- c) Juniors
- d) Seniors
- 2. Full-time foreign students (undergraduate and graduate)
- 3. Full-time out-of-city graduate students
- 4. Lahore-based students residing more than 30 km from campus
- 5. Other Lahore-based students

Lahore residents are not eligible for on-campus residence in the first cycle. They may apply once the hostel registration is open for day scholars and only if space is available.
- 6. Subject to space availability, visiting students, researchers, or postdoctoral scholars may be considered for accommodation on a case-by-case basis.

General Rules and Allocation Process

- Only full-time students maintaining a full course load are eligible. Students falling below this threshold forfeit residence privileges.
- Students who have completed graduation requirements but are still enrolled may be considered subject to space availability.
- Students who voluntarily vacate the hostel before completing their academic program lose priority for reapplication or reinstatement of residence privileges.
- New students apply for on campus residence along with their admission and returning students register for accommodation for the next academic year in June-July.
- Accommodation is allocated annually. Renewal is not guaranteed and depends on space availability.
- The hostel accommodation is renewed every year as per space availability. The University cannot guarantee accommodation on campus for the entirety of the degree program.
- Allocation is not a right, but a facility extended based on institutional priorities. If demand exceeds availability, a lottery system is used.
- If the number of applicants in any category exceeds available capacity, a lottery system will be used to allocate remaining slots in a fair and transparent manner.
- Non-payment of hostel dues, failure to check in without prior notice, or losing full-time registration may result in cancellation.
- Non-payment of hostel fees, failure to check in without prior notice at the beginning of any academic term or ceasing to be a registered full-time student may result in cancellation of on campus residence.
- Dues are non-refundable after the first day of classes and check-in.
- On campus residence dues are non-refundable after the first day of commencement of classes and hostel check-in.
- Laundry charges are paid by the students directly to the vendor.
- Space is allocated for one year and rooms must be vacated at the end of the academic year. Students must sign the housing agreement at the time of check-in and formally complete a check out prior to vacating their room at the end of academic year.
- Students must vacate their rooms immediately after their last scheduled exam and return keys to the Housing Office before departing campus.

Occupancy Agreement

All students granted residence must sign a Room Occupancy Agreement prior to check-in. This document will outline expectations for room use, shared facility conduct, damage liabilities, prohibited items, and disciplinary consequences for violations. Signing this agreement is mandatory and indicates a binding acceptance of housing rules.

Code of Conduct and Residential Rules

- Students engaging in wilful abuse or destruction of the University property will result in being reported to the Residence Office and disciplinary action is taken against such cases.
- Tampering with or modifying electrical, plumbing, cable television, telephone, security systems in rooms or public areas is prohibited. For a detailed Hostel LAN Usage policy, please refer to the Information System Technology (IST) section.
- Drilling, nailing, or painting of walls is prohibited.
- Permanent installation of carpets or flooring is also prohibited.
- Misuse of fire extinguishers or other emergency/security equipment including fire alarms and smoke detectors is prohibited and subject to fines and damage charges.
- Misuse of fire extinguishers will result in a fine penalty and disciplinary action.
- The possession or use of fireworks, ammunition, hazardous or explosive material, firearms, pellet and BB guns, illegal knives, blades, or other dangerous weapons on-campus is prohibited.
- Objects or substance of any kind may not be projected in a manner that may harass or endanger any person or risk damage to any property. Students must occupy the room to which they are assigned.
- Any changes in room assignment must have prior approval of the Residence Office and the responsibility for the assignment of rooms is at the discretion of Residence Office.
- Upon confirmation that the student is not occupying his or her room, the space of that student is reassigned after one week of commencement of classes.
- Ragging of newcomers inside the hostels is strictly prohibited. Any violation is dealt with severity.
- Males are not allowed in female hostels and vice versa. Any breach of this policy is considered a serious offence and will result in disciplinary action.
- Accommodating overnight guests, day scholars, outsiders and visitors is not allowed. University has zero tolerance policy for illegal stay. This will lead to reporting to the Residence Office for disciplinary action.
- Day scholars are not allowed to stay in the hostels. If found, students are charged a fine as per policy. They can visit hostels from 8:30 am to 10:30 pm.
- All residents must carry their smart cards all the time.
- The residents should take care of their personal belongings. The University shall not be responsible for any loss or damage of the personal belongings of the residents.
- Keeping pets in the rooms or in the Residential buildings are not allowed.

University Access to Resident Rooms

- The Housing staff may enter into student's room without prior notice or permission at any time for administrative, safety, and regulatory purposes with the permission of Dean OSA/HOD Housing.
- The lock of the main door of the room may not be changed nor can additional locks be placed on any door of the room, or any other doors within the building. In the event of an emergency, the University may remove students' belongings for cleaning, repair, storage, and/or protection purposes.
- LUMS recognizes the importance of student's privacy of student rooms. Any right of entry shall be exercised only when required for purposes of health, safety, and maintenance, and to regulate the use of its premises in accordance with the University rules and regulations.
- When a student sends a repair and maintenance request to the relevant housing officer, it is understood that the Facilities and Engineering personnel have permission to enter the student's room. However, a student may specify in their request that the staff must enter in their presence only.

Substance Abuse

- **Smoking**

Smoking is a hazard to the health and safety of all residents and is prohibited in all areas of the Residential buildings. Violations are considered a breach of discipline and a fine of PKR 5,000/- is levied as per smoking policy.

- **Narcotics/Alcohol**

The use of any kind of narcotics or alcohol is absolutely forbidden on the University premises. The use or possession of any kind of narcotics/alcohol will result in disciplinary action in accordance with the Student Handbook and the possibility of immediate cancellation of residential space.

- **Sheesha**

The possession and/or use of Sheesha is forbidden on campus. Possession or use will result in confiscation of the Sheesha and disciplinary action including the possibility of cancellation of residential space.

Note: LUMS and Housing Office reserve the right to On Campus Residence and to modify the On Campus Residence policy as and when it is deemed necessary.

For queries related to On Campus Residence, contact at residence@lums.edu.pk

2. Co-Curricular Activities Office (CCA)

Co-Curricular Activities (CCA) Office: The CCA Office at LUMS organizes and facilitates a wide range of extracurricular activities for students. These activities complement your academic studies and provide opportunities for personal growth and development.

The CCA Office offers a diverse array of student organizations, events, and initiatives for students. Students are encouraged to explore these opportunities and participate in activities that interest them.

One of the critical goals of the CCA Office is to foster a sense of community and collaboration among LUMS students. The office encourages students to collaborate on projects and initiatives and provides opportunities to network and build connections with their peers. Students are encouraged to collaborate with other students and make the most of these opportunities to develop their teamwork and leadership skills. In addition to providing opportunities for personal growth and development, the CCA Office also plays an essential role in promoting the LUMS brand, showcasing the talents of its students and providing opportunities for external participants to explore LUMS. The office also provides opportunities to students to participate in the external competitions and conference to represent LUMS.

Overall, the Co-Curricular Activities Office at Lahore University of Management Sciences is integral to the university's student life experience. It provides students with opportunities to grow, learn, and develop in ways that complement their academic studies and plays a crucial role in creating a vibrant and engaging campus community.

Strategic Focus

CCA is committed to improving student-led organisation management and policy framework. Strategically the department will focus on the following:

- **Involvement Tracking and Reporting**

To start tracking attendance, participation, roster management, and financial reporting. We will create a culture that actively emphasises data gathering and data-driven decision-making.

- **Performance Review**

To have annual performance reviews and give space to new ideas. We will create a culture of evidence by assessing society programming, engagement, and success by ensuring that all societies are active and meet performance criteria.

- **Alumni Engagement & Community Building**

To develop Alumni Engagement Programs and foster interest-based community building. We will work with the students to re-imagine the engagement scope and look beyond LUMS's boundaries.

- **Growth and Development Plan**

To Build a Society Development Model and provide guided pathways for growth to student leaders and student organisations. We will create a culture where student leaders actively reflect on how they can lead their organisation to success.

- **Planning & Communication**

To develop Society Value Statements and nurture annual Scopes & Calendar Planning. We will ensure assessment, planning, and communication of content and intentionally voice it to enhance student experiential learning.

- **Partnership and Collaboration**

To Program a sense of collaboration and service amongst student societies. We will encourage developing and maintaining meaningful relationships and partnerships on and off campus to enhance student learning, community, and support.

CCA Committee

Given the diversity of the student clubs and societies and the varying degrees of shared governance currently operating in the system, practices utilised by student clubs throughout Lahore University of Management Sciences (LUMS) vary widely. The primary function of the Co-Curricular Activities (CCA) Committee is to review, approve, oversee & mediate student clubs and society's activities and ensure coherence.

The CCA Committee will cover various aspects of campus student clubs and societies by ensuring smooth interactions between administration, faculty, students, and external agencies. It will also assist in forming new clubs and societies and evaluating performance. The Committee will monitor the content of the student clubs and societies based on value addition, engagement, collaboration, and community building. It will be the Committee's core responsibility to maintain the balance of interest and accelerate the growth of the student leadership landscape. Effective governance and development require all clubs and societies to utilise standard practices that ensure the highest possible quality of content and value addition within allocated resources.

The mandate of the Co-curricular Activities Committee

The CCA Committee is mandated to supervise student societies and clubs, define student society policies, adjudicate and moderate society conflicts, and recommend best case practices for events and society structures.

Membership

The CCA Committee should contain the following members:

- i. Convener
- ii. Student Council Representative

- iii. Presidents Club Representative
- iv. Office of Dean OSA Representative
- v. CCA Members

Student Societies

Student societies are at the forefront of extracurricular activities. These societies provide a thriving platform for students to showcase their talents and encourage leadership and professional development beyond the classroom.

The dynamic and diverse range of student societies at LUMS are a testament to the university's commitment to nurturing students' passions and interests. These societies provide opportunities for students to engage in a variety of activities, including events, academic competitions, tournaments, and community service projects.

By joining a student society, students have the chance to hone their leadership and teamwork skills, expand their network, and contribute to the LUMS community. Below is the list of all student societies:

1. Aiesec Society
2. Amnesty International
3. Dramaline Society
4. Debating and Recitation Society
5. LUMS Adventure Society
6. Law and Politics Society
7. LUMS Entrepreneurship Society
8. LUMS Literary Society
9. LUMS Media Arts Society
10. LUMS Culture Society
11. LUMS Religious Society
12. LUMS Model United Nations
13. LUMS Environmental Action Forum
14. LUMS Community Service Society
15. LUMS Daily Student Society
16. Lums Photographic Society
17. Lums Students Maths Society
18. Lums Music Society
19. Publication at LUMS
20. The Economics Society
21. SPADES
22. FINTRA - Finance
23. Feminist Society
24. Lums Consultancy Group
25. Psychology society at LUMS
26. Index the Design Society
27. LUMS Culinary Society
28. Hum Aahang Society
29. Animals and Welfare Society
30. Rizq
31. Riayat LUMS Chapter
32. LUMS Dance Society
33. Radio at LUMS

34. LUMS Women in Computing
35. LUMS Students Policy Research Initiative
36. Toastmaster
37. LUMS Chess Club
38. LUMS Equestrian Club
39. LUMS Computer E-Gaming Society
40. Sports LUMS
41. Emergency Medical Service

Membership

Every student is welcome to participate in a student society. However, it is essential to note that maintaining an adequate academic performance is a prerequisite for participating in Co-Curricular and extra-curricular activities.

Each year societies should open membership to induct students through a fair selection process approved by the office.

Executive Council Membership

Executive Council members' evaluation & succession refers to the appraisal of a person's capability, Leadership abilities, commitment and experience to work as a team to ascertain their standing in the society.

1. New Society Approval Process

To start off, any new society requests are accommodated as new 'clubs', which can progress into societies based off performance of a whole year.

To form a club, the following requirements are required to be submitted to CCA office:

- i. Visit the list of student society to see if the society already exists, and does a similar job, if it does, do not proceed to the next step. If it does, please reach out to the student society and contribute your ideas by joining the existing model.
- ii. Hold a meeting prior to submitting your application with CCA to collect information needed for the application and to discuss the club's mission, leadership structure, events and programs for the year, and potential advisors for the club.
- iii. To register, please submit your application to CCA office and email saad.k@lums.edu.pk
- iv. The following information will be required to complete your application:
 - (a) Student Organisation name
 - (b) Student Organisation Preferred Email
 - (c) EC Information
 - (i) Name
 - (ii) LUMS Email Address
 - (iii) Expected Graduation
 - (iv) Position Description
 - d) All clubs must have at least 3 EC members who are currently enrolled in a degree programme at LUMS, have no disciplinary case against them, and have at least 2.5 CGPA.
 - e) There must be an officer responsible for budgeting and finance and the president cannot have it as a responsibility.
 - f) Student Club Logo
 - g) Mission/Purpose statement that is unique from current student societies.

- h) A brief Value Statement covering the following:
 - i. Value Addition
 - ii. Engagement Model and Scope
 - iii. Collaboration
 - iv. Community Building
 - v. Service (If applicable)
- e) Key Performance Indicators and Event Calendar.
- f) Revenue Model
 - a. Sponsorship is not a sustainable model and basing financing solely on this is highly discouraged.
- g) If your club has an external affiliation, you must request an authorised letter of approval from the external organisation.

If approved, the club is considered provisional for one academic year and must complete the following requirements by 15 March.

- a. Execute the Proposed Event Calendar
- b. Develop a 5-Years Strategic Plan
- c. Hire the Next Executive Council

The club will submit an annual performance report to CCA Office.

CCA Office may deny a request to register a student club:

- d. if it fails to comply with University Policies and Code of Conduct
- e. if it creates a substantial disruption on campus;
- f. to prevent organizational activity that is itself illegal under law;
- g. if it is a duplicate of the mission or purpose of an existing registered student society; or
- h. if it is set up such that any individual benefits monetarily from its existence.

3. The Counselling and Psychological Service (CAPS)

Counselling and Psychological Services (CAPS) was founded on the core principles of healing, caring, and educating the student community at LUMS.

Our team is made up of dedicated professionals who have chosen to work in a university mental health setting because they recognize the importance of supporting students' emotional well-being.

CAPS offers free and confidential counselling services to all enrolled students and is guided by the philosophy of **"helping students help themselves."** Our therapists listen in a non-judgmental and supportive manner, helping students explore their concerns and develop effective coping strategies.

We understand that taking care of mental health is a vital skill—one that supports students not only during their academic journey but also throughout life.

At CAPS, seeking counselling doesn't mean something is wrong with you, it simply provides a safe, neutral, and confidential space to express your thoughts, feelings, and challenges freely.

Please Note: Counselling sessions are not recorded on a student's academic record. Counselling is simply a space to receive support and guidance to help students navigate their studies and personal challenges.

Official CAPS Email Addresses for Contact:

Regular Therapy Sessions

To schedule regular therapy sessions, please email student.counselling@lums.edu.pk. Our team will respond within 24 hours.

Assessments and Academic Accommodations

For all types of clinical assessments, including petitions and academic accommodation requests, please email assessments.caps@lums.edu.pk. Our dedicated staff will guide you through the required procedures and provide necessary support.

Feedback and Complaints

We value your feedback and take all complaints seriously. If you have any suggestions, feedback, or concerns, please contact us at feedback.caps@lums.edu.pk. Your input helps us continuously improve our services.

Emergency Therapy Sessions

To schedule an emergency therapy session, please email emergencies.caps@lums.edu.pk. Our team will respond within 24 hours.

Our Office Hours

Our office hours are structured to accommodate various schedules and ensure accessibility for all students. The current timings are as follows:

Morning Hours: 10:00 AM to 5:00 PM

Evening Hours: 3:00 PM to 9:00 PM

Night Hours: 9:00 PM to 9:00 AM (Monday to Sunday, for after-hours emergencies only)

Weekend Hours: 10:00 AM to 5:00 PM

During these hours, our team is available to address student concerns, schedule appointments, and provide guidance. For after-hours emergencies, our night shift team is dedicated to assisting you promptly.

Some of the common reasons students seek counselling at CAPS include:

- Feeling isolated, stressed, or unmotivated
- Adjusting to change
- Feeling overwhelmed
- Managing stress and anxiety
- Handling loneliness or lack of support
- Experiencing loss and grief
- Feeling homesick or missing family and friends
- Concerns with work or studies
- Personal development and wellbeing
- Discovering and striving toward full potential
- Experiencing low mood
- Feeling lost or stuck
- Lacking confidence, self-esteem, or concerns about body image

- Coping with a crisis
- Procrastination and study-related issues
- Balancing academic and personal commitments
- Dealing with family and relationship challenges
- Needing someone neutral and independent to talk to
- Other mental health issues

The Head of the Department of Counselling and Psychological Services is Dr. Tahira Haider, and she can be reached at the following email address: **tahira.haider@lums.edu.pk**.

4. Office of Sports, Wellness & Recreation

The Office of Sports, Wellness & Recreation is an integral part of the LUMS community and promotes competitive and intramural sports among the students to create awareness of and encourage physical well-being. The operation and administration of the Syed Maratib Ali Sports Complex and Coca Cola Aquatic Centre fall under the jurisdiction of the Office of Sports, Wellness & Recreation (SWR) at LUMS. The Head of Department for SWR is responsible for the day-to-day operations of the facility. SLUMS, the sports committee of LUMS, consisting of students, faculty, and staff assist the SWR in establishing policies and coordinating the use of sports-related facilities.

Mission

We promote health awareness and also encourage physical well-being by offering a wide range of opportunities for the LUMS community. Significantly, we promote sports culture, intra-mural, regional and national level intervarsity competitive sports for LUMS students. We aim to provide quality sports facilities and offer a blend of sports opportunities to the entire LUMS community.

Key Services

- Wellness and Wellbeing Programs
- One Credit Sports Courses for Beginners (Fitness, Swimming, Basketball)
- Fitness Training under the world-class infrastructure and qualified fitness instructors
- Locker Facilities for Sports Complex user
- Intra-Mural League Competitions for LUMS community
- Inter-Departmental / School Games
- Training camps for beginners

Key Sports Facilities

1. Coca-Cola Aquatic Centre (Swimming Pool)
2. Executive Gym for faculty and staff only
3. Separate Gyms for Males and Females
4. Aerobics and Yoga Room
5. Airconditioned Wooden Floor Squash Courts
6. Both Indoor and Outdoor Basketball Courts
7. Badminton Courts
8. Both Indoor and Outdoor Volleyball Courts
9. Tennis Courts (Australian Open Surface) with Floodlights
10. Grassy Hockey Field with Floodlights

11. Grassy Football and Rugby Fields with Floodlights
12. Grassy Cricket Field

Lifetime Physical Activity and Wellness Programme

One credit hour sports courses

The cardinal purpose of these sports courses offered is to develop a healthy, active, and spirited community at LUMS. Considering the numerous benefits of the program which would yield, 1 credit hour elective sports courses are offered to undergraduate students. The undergraduate student would be allowed to take 1 sports course per semester during their course of study and they can take maximum total 8 credit course, and which count towards fulfilling their degree requirement.

Courses offered:

- Strength and Conditioning for Beginners (Male / Female)
- Swimming for Beginners (Male / Female)
- Basketball for Beginners (Male / Female)
- Walk, Jog and Stretch for Beginners (Combined / Female)

Note: These courses are offered only for beginners so DO NOT opt if you have ever played the game at university /national level. The instructor will assess the individuals at the beginning of the course to evaluate their skills and may ask you to leave the course.

Policy for One Credit Courses

- Each course will be of 28 sessions, 2 sessions per week.
- 80% attendance in the course is compulsory. If the attendance is less than 80% then the participant will not be eligible to take part in final assessment test.
- Students are allowed but not encouraged 4 unexcused absences. Any additional absence will result in failure, from the course. Two unexcused tardy shall constitute one absence.
- To accomplish the objectives of this course, participation in class activities and sessions is essential.
- An excused absence based on medical reasons must be accompanied by a recommendation from the LUMS Medical Center and approved by the Petitions Office.
- Each section of Basketball for beginner and Strength Training and Conditioning Courses will consist of a maximum of 20 students.
- Each section of walk, jog and stretch and Swimming for beginner's course will consist of maximum 30 students.
- Elite athletes are not eligible for the courses.
- In case of physical disability or any medical reason, please do not opt the course.
- Participants must be in sports attire during the classes and training sessions as per course requirement.

Rules and Regulations of Usage of the Sports Facilities

• Safety of Users

The safety of all participants who use the sports facilities is our highest priority. When using the facilities, please consider your own health history, seek counsel from your health provider, and use common sense. In case of an accident or illness, notify an employee at the sport's complex reception desk immediately. He / She will assist you to seek help from EMS or LUMS Medical Centre.

- **Lost and Found**

The SWR keeps lost items in its custody for a maximum of 24 hours. In case of no claim, the said item is deposited at the LUMS lost and found office (located at the LUMS Security office). The administration of the sports complex is not responsible for lost or stolen items. Lockers are available for students and faculty for day-use.

- **User Conduct**

All users are expected to adhere to the policies and procedures approved for the Sports Complex as well as LUMS rules and regulations. Lack of cooperation in adhering to the rules governing the center and its programmed activities will result in administrative action and possible disciplinary action, including removal from the Complex and or cancellation of use/membership privileges.

- **Coaching**

The University provides coaches for most sports; please visit the reception desk for details.

- **Equipment**

There is a limited quantity of sporting equipment available for users to borrow. These shall not be removed from the premises.

- **Clothing**

Members are required to dress appropriate sportswear according to the sport they are playing.

The following are mandatory (except for the swimming pool):

- A sweat / T-shirt must be worn to cover the upper body
- Shorts must be mid-thigh or longer.
- Socks must be worn.
- Appropriate non-marking footwear is essential.

The following are strictly prohibited:

- Casual clothing e.g., front open shirts, jeans, jeans shorts.
- Open-toed shoes, open-backed shoes, sandals, or any types of equipment which can damage the facilities – this determination is to be made by the management.
- The Non-marking shoe allowed only inside the main hall.

Note: Specific sports have additional clothing requirements.

- **Disclaimers**

All exercise and sports sessions are undertaken at the member's own risk. Management will not be responsible in cases of injury or accident. Members are advised to get a medical doctor's clearance before starting any serious exercise program.

All personal belongings brought into the premises shall be kept at the owner's risk.

The University reserves the right to remove individuals from recreation facilities and to revoke membership based on that individual's actions.

- **Admittance Policy**

To access the sports complex or the aquatic center a valid University ID is mandatory. Members shall be given access upon submitting a valid University ID at both points of entry. In case the user is unable to show or possess a valid University ID the SWR staff shall be authorized to refuse the entry. No excuse shall be entertained.

Please help maintain a secure environment by using your personal LUMS ID Card upon arrival to gain entrance to the sports facilities, watching your valuables carefully, and notifying the staff if you see something out of the ordinary.

Sports Complex Membership

The membership structure for the sports complex is given below. Proof of University affiliation is required at the time of application.

Facility	Students	Employees	Employee Family Member	Alumni	Alumni Family Member	Student Family Member	Eligible Donors
	Membership Fees in PKR (per month unless otherwise specified)						
Swimming Pool (Aquatic Centre)	Free	500	3000	10,000	10,000	Not Available	15,000
Regular Gyms + Squash + Badminton +Basketball	Free	Free	free	10,000	10,000	Not Available	15,000
Executive Gym	Not Available	Free	10,000	Not Available	Not Available	Not Available	Not Available
Tennis Courts	Free	Free	5000	10,000	10,000	Not Available	10,000
Gad and Birgit Rausing Library	Free	Free	12,000 per year				
Health and Wellness Centre	Free	Free	N/A	N/A	N/A	N/A	N/A
Food Outlets, Play Areas, Walking Track, Mosque	Free	Free	Free	Free	Free	Free	Free
Cricket Ground	Free	Free	40,000 per day				
Football/Hockey Ground	Free	Free	25,000 per day				
Syed Maratib Ali Sports Complex	Free	Free	25,000 for two hours				

Note: Sports Complex Gym facilities are not available for Student family members. However, Badminton, squash and basketball courts are available.

Terms and conditions:

- Family members of students and employees include parents, spouse, and children.
- Family members of alumni include spouse and children.
- LUMS reserves the right to bar entry temporarily or permanently for any member due to disciplinary reasons.
- Eligible donors include those whose cumulative donations to date equal or exceed PKR 1M.
- Cricket / Football / Hockey Grounds and the Main Sports Hall can only be booked for sports activities.
- The Medical Facility is available only for students and employees, but in case of emergencies, anyone present on campus may use it.
- All fees are payable in advance via the LUMS Sports Membership Portal
- It should be noted that exclusive booking is subject to availability. The sports facilities are primarily for the usage of the entire community but where possible reservations will be facilitated for recreational Activities for specific programs.
- Day memberships at Rs. 1,000 per day shall be available for the participants of conferences or those on short courses for the usage of all facilities.
- In general, you are advised to book in advance, particularly during peak periods.
- Booking facilities vary across sports, see relevant rules, regulations, and procedures for each sport.
- Children of 12 years and under are allowed but must be accompanied by an adult.

Note: For day pass, alumni will require to make the payment through online portal “sports.lums.edu.pk well in advance. All payment must be made in advance through portal sports.lums.edu.pk.

Sports Facility Timings

- **Sports Complex**
Sports Complex (Main Hall) can be used from 6:00am till 12am
Sports Complex (Gyms and Squash Courts) can be used from 8:00am till 12am.

Swimming Pool Schedule

- The swimming schedule is available at LUMS Coca-Cola Aquatic center, feel free to contact at 3811 for any queries.
- Children 12 and under are always allowed but must be accompanied by an adult.
- 1 credit hour swimming for beginners’ classes are scheduled during the week on given schedules. However, the pool remains available for regular users in the said duration.
- Aquatic Center can be used from 8:00am till 10pm

Note: The management may close all the facilities or part of the Sports Complex due to repairs, maintenance, or expansion of the facility or in case of special events, without notice. Management can re-adjust the operating hours of the facility without any prior notice.

Facility Usage Policy

Operating Hours

The Sports Complex will be open from 8:00-12:00 a.m. for the LUMS community. However, **all facilities are closed on Government official holidays**. Essential staff may be deputed on duty subject to the needs of the community by Sports Office.

Swimming Pool Rules

- Pool users will register their names at the reception desk.
- Showers must be used prior to swimming.
- The maximum time for swimming shall be 45 minutes per time slot.
- Pool users must wear swimming suits or swimming trunks upon entry into the pool. Clothing such as cut-offs, gym shorts, and underwear is not permitted as swimwear. Swimwear should not have been worn for exercising immediately prior to pool use and must be colorfast and of lightweight material suitable for swimwear.
- Swimming caps are strongly recommended and mandatory for those with long hair. Using a cap prevents the pool's filters from becoming clogged with hair.
- Avoid swimming if you have skin diseases, open wounds, or flu as this may pass the infection to others. Those with skin diseases must provide a certificate from a doctor giving clearance for swimming.
- Stay out of the water if you have diarrhea.
- Stay out of the water if you have an open wound (for example, from surgery or a piercing) that is not covered with a waterproof bandage.
- Vaccinations for Tetanus, Hepatitis A and B and Typhoid is highly recommended.
- Children under 12 must be accompanied by an adult 18 years or older.
- Children wearing diapers are not allowed in the pool. Parents are advised that this is a large pool with a minimum depth of 4 feet at both ends and is not suitable for children under 5.
- No glass, food, drink, or gum in the pool area.
- Always walk. NO RUNNING! Alongside the pool deck.
- Excessive horseplay and offensive language/ behavior of any kind is not allowed.
- Foam or inflatable play apparatus only. (No full-sized flotation devices. Children who need a flotation device must have a parent/guardian within arm's reach)
- Diving from elevation is not permitted. Use lockers provided for other personal items. Lap lanes are for swimming laps only. Skilled swimmers only in deep water. Water guns are not permitted.
- Programs such as scheduled training camps and competitions will have priority over drop-in at the pool area. If possible, part of the facility will remain open for drop-in participants.
- The use of the pool is considered a privilege. Those who do not cooperate with established policies, use abusive language, are under the influence of drugs or alcohol or act inappropriately toward a university employee is asked to leave and may have their privileges revoked.
- Pool administration will not be responsible for loss due to theft. Secure all valuables in a locker. Locks are available at the equipment desk.
- Personal private contract work, i.e., swimming lessons, personal training, and/or fitness workouts of any kind, are not permitted at the Sports Complex
- Anyone interested in receiving private instruction should be referred to the main office for proper registration procedures.

Table tennis / Badminton Rules

- Four table tennis tables/badminton courts are available for use.
- Each table is available for the use of a maximum of four players for a time span of 30 minutes.
- After the completion of their stipulated time, the players will leave the table for the next waiting member. The 30 minutes' time limit will start from the time of the first service. No extra time for warm-up is allowed.

Gym policy (Male & Female) Rules

- Disrupting or interfering in the workout of other members are not allowed.
- Members should bring their own towels; the Management does not provide them.
- Bags, coats or personal items are not allowed in the gyms.
- Rack users should wipe away sweat left on the apparatus.
- Only gym/fitness instructors are allowed to provide instruction on exercise techniques or equipment preparation and adjustment.
- Gym/fitness room participants should report all malfunctions in equipment, personal injuries and specific concerns immediately to the staff.
- Proper Sports Wear is to be worn in the Sports Area; this includes Tracks Suits, T-Shirts. Jeans, pants with belts, cut-off jeans and shalwar kameez are prohibited in the workout areas.
- All participants are to comply with the gym/fitness instructor's directive regarding enforcement of policies related to safety, programming, exercise techniques, and policies.
- All footwear, except for canvas or sports shoes with rubber soles is prohibited.
- Non-marking athletic shoes are required. Closed-toe athletic shoes and shirts are required in all fitness areas.
- Dropping weights on the floor can cause injury to yourself or others and can also damage the equipment itself. Always set it down as gently as you can.
- At the peak time, the maximum time to use the machines is 30 minutes. Always switch off the treadmill after use and wipe off the sweating from the equipment for other users.
- Paper towels are provided for personal and equipment hygiene. Please wipe down equipment after use.
- Keep hands and feet clear of moving parts while the machine is in use. Please use machines and equipment only for their intended purpose.
- Do not operate the equipment if it has loose or damaged parts. If a machine fails to operate correctly, do not attempt to repair it. Notify the gym staff or front desk of the problem immediately so that, they can coordinate for the necessary repair.
- Participants exercise at their own risk, and they are responsible for their own health and safety.
- All free weight users must have at least one spotter. Staff members are not required to spot. Squats done outside the rack require two spotters.
- Return weights to proper storage racks.
- No equipment is to be removed from its designated area except by gym staff.
- Individuals who are not able to safely or properly use the equipment are asked to leave.
- All users must remain at least 5 feet away from mirrored walls during exercise. Please do not touch mirrors.
- Please turn treadmills completely off before getting off.
- Children under the age of 16 are not allowed to go into the weight room or the cardiovascular area
- It is the user's responsibility to follow and obey all rules posted by sports complex staff. Please ask the staff on duty if you have any questions.
- Must clean your sweat after the usage of machines.

Aerobic Room Rules

- Equipment provided for different exercises (hand weights, slides, steps, etc.) may not be taken out of the designated aerobic room or area.
- There are class size limitations.

Sports Complex (Main Hall) Rules

- Grabbing the basketball ring (hanging on) the rim or nets is prohibited.
- Do not move any equipment set up on the courts.
- Ask the equipment desk for assistance with equipment setup or removal.
- Full-court basketball games are broken into half-court games if participants are waiting to play.
- Use appropriate sportswear and wear non-marking shoes at the basketball court.

Squash Courts Rules

- All courts are kept under lock and the key is placed in the front office of the sports complex.
- Squash courts can only be used with the appropriate footwear (Squash Shoes Transparent sole shoes). This footwear must be carried to the court to avoid soiling the wooden surface. Members in incorrect footwear will not be allowed to use the facilities and are barred from using the courts in the future.
- Please adhere strictly to the 40-minute time slot so that court time may be used fairly by all members.
- The start time of the game should be written on the whiteboards placed outside each court.
- Four Squash Courts are available. A maximum of three players can use one court for a time span of 40 minutes. After the completion of their stipulated time, the players will leave the court for the next waiting member.
- The 40-minute time limit will start as soon as the members enter the court.
- Members must enter the courts with clean soles, he/she must ensure that the sole of the shoe is properly dusted off.
- Do not clean your hands with the back door or glass or walls, please bring your own towel.

Lawn Tennis Courts Rules

- Two Tennis Courts are available. A maximum of four players can use one court for a time span of 30 minutes. After the completion of their stipulated time, the players will leave the court for the next waiting members.
- The 30-minute time limit will start as soon as the members enter the court to play.
- Members must enter the courts with clean shoes.
- Footwear must be non-marking (transparent rubber sole) rubber-soled / tennis shoes.

Lockers Policy

- **Sports Complex Lockers**

Locker storage is provided for users of the sports complex. Users are strongly advised to secure a locker on a six-month or annual rental basis, to store their personal belongings. You may contact the reception desk for membership. The Office of sports, wellness, and Recreation at LUMS is not responsible for any damage, theft or loss of personal items stored in the lockers.

The rental fee for lockers is as follows:

One Year	Rs. 14 per day
Six Months	Rs. 20 per day
Quarter	Rs. 30 per day
One Month	Rs. 40 per day

- Lockers are assigned on a first-come, first-served basis.
- All locker rental transactions take place at the equipment desk.
- Annual and semester lockers are renewable. Lockers not renewed within the two-week period are cleared and the contents stored for 30 days. After 30 days, they are sent to MTSU's Lost and Found.
- The user is charged for any damages to a locker or loss of lock or towel.
- Users should immediately report any damage or loss of these items to the equipment desk.
- Renewals of locker rentals must be paid in full before the last day of the rental, or the locker may be reassigned.
- Children over the age of six years must use the appropriate locker room.
- Only Sports Complex locks are used for overnight storage in the locker rooms. Participants may use personal locks on any day-use lockers in the locker rooms. All locks that do not belong to the Sports Complex are cut off each night after closing.

Swimming pool lockers

- Locker keys are provided upon the submission of original University Smart Card and is returned upon returning the locker's keys.
- The Sports Complex staff will remove any personal items left in a locker. Items confiscated may be claimed at the equipment desk. If not claimed within seven days, the items are sent to LUMS Lost and Found.
- The pool lockers are provided for a short period and are free of charge. All pool users shall be eligible to use the locker for 55 minutes maximum. Upon leaving the pool area after the use of the pool he/she shall be bound to empty the lockers and return the keys to the reception desk.

Floodlight Booking

- In accordance with the decision made by the sports committee LUMS, the following procedures are applicable for floodlights:
- Daily on/off timing are from 6:00 p.m. to 12:00 a.m. The operation after midnight must go through a sports committee / sports officer who will request the facilities and engineering department.
- The lights are kept off if no one is playing or practicing. In case any team or group wants to play, the facility is provided. In that case, students are required to inform the Asst. Manager sports or sports staff, who will inform the electric department to switch on the floodlights.
- The floodlight facility shall be available during the competition/matches organized by SLUMS. SLUMS should inform and provide the schedule to related personals beforehand by filling booking forms available at the sport's complex reception.
- In accordance with the decision made by the sports committee LUMS, the following procedures are applicable for grounds:
 - The floodlights are provided on a needy basis.
 - The representative of the relevant sports/event is responsible to intimate the front desk to switch off the light at the completion of the event.
 - If s/he fails to inform us they will not be provided with the facility in the future. The Sports Office may impose fines on the users in case of violation.

Court Booking

- Squash courts (number 3 & 4), Badminton courts and tennis courts are available for advance booking. Members can reserve the courts through e-mail or phone a maximum of two days in advance through swr@lums.edu.pk or extension 3801.

- Bookings are on a first come first serve basis.
- If members do not report within five minutes of their allotted time the booking will automatically be considered canceled
- Members can also book courts in person at the Sports complex reception.
- A valid LUMS Smart Card or Alumni Card is required.
- Booking of courts is available a maximum for two days a week per person.
- Time slots are limited to one per member per day.

Padel Court Booking Policy

1. Objective: This policy outlines the procedures and regulations for booking and utilizing the padel courts. The aim is to ensure fair access and optimal utilization of the facilities.

2. Operational Timing as follows:

Option-1

Summers (March 15th – October 15th): 6:00 a.m. till 11:45 pm (court will be closed by 12:00 midnight by the staff)

(subject to change according to the needs of the student community)

Winters (October 15th – March 15th): 8:00 a.m. till 11 pm (court will be closed by 12:00 midnight by the staff)

Option-2

Morning / Evening Slot: Summer 6:00 a.m. till 12 midnight

Special Schedule (Late Night Slots): 12:00 midnight till 6:00 a.m.

3. Booking Guidelines:

- **Booking Duration:** Bookings will be valid for 24 hours.
- **Maximum Bookings:** Each student may book **two slots in a week (1) daily slots**.
- **Slot Duration:** Each booking will be for a **60-minute slot**.
- **Online Booking Platform:** Bookings must be made through the designated website under the **LUMS domain**. Book your slot by logging in with your ID and password at sports.lums.edu.pk.

4. No-Show Policy:

- If a student fails to show up for a booked slot without prior cancellation, they will be restricted from making any new bookings for **the next 15 days**.

5. Padel Team Allocations:

- The padel team will be allocated **two (2) hours twice a week** for training and practice sessions.

6. General Rules and Regulations:

- Students are required to arrive on time for their booked slot.
- Proper sports attire and footwear must be worn on the court.
- Users are responsible for keeping the court clean and maintaining equipment.
- Any damage to the court or equipment must be reported immediately.
- Unauthorized use or misuse of the booking system will result in disciplinary action.

7. Cancellation Policy:

- Bookings can be canceled up to **2 hours before the slot time** without penalty. The next person on the waiting list will automatically be eligible to use the court.

- Frequent cancellations may result in a temporary suspension of booking privileges.

8. Enforcement:

- The sports administration reserves the right to monitor court usage and enforce these policies.
- Feedback and concerns can be directed to the **Sports Office at LUMS**.

9. Booking Limits for Students

- A maximum of two (2) booking slots per week is allowed per student group (comprising four users).
- Same-day double bookings are strictly prohibited.
- Bookings must include the full names and roll numbers of all four participants. Rackets will only be issued to the registered users.
- If you bring your own rackets, you are still required to register all four group members at the reception desk before using the court.

10. Monitoring and Enforcement

- The SWR staff will monitor each hour slot periodically on a daily basis and may request users to present their LUMS ID cards at the court.
- The SWR staff will monitor bookings and facility usage daily.
- If a group is found using the court more than twice a week, they will be asked to vacate the court immediately, and future bookings may be restricted.
- Until the booking system is upgraded, any misuse will lead to automatic cancellation of bookings.

11. Dress Code

- Proper sports attire is mandatory: non-marking shoes, sports shirt, and trousers/shorts.
- If any member of a group is found without proper attire, the entire group's booking rights will be revoked.

12. Faculty & Staff Access

- Slots have been reserved for faculty and staff on:
Monday to Sunday: 6:00 PM – 7:00 PM
- Faculty and staff are welcome to reserve these time slots through the designated system.

13. Amendments: This policy is subject to periodic review and may be amended as deemed necessary by the sports administration.

Summer Sports Programme

LUMS Sports Office not only facilitating the community but also helping their children grow in their respective physical games. For this purpose, we organized annual summer Sports Academies to promote competitive and intramural sports among the students to create awareness of and encourage physical well-being. This is done by offering a range of fitness and recreational activities to the students belonging to faculty, staff, students, alumni, and the general public. Now, under SWR, LUMS has well-maintained, state of the art sports facilities and highly trained coaches in the following sports:

- Badminton (rubberized coated indoor dual courts with side angle alleviated lights).
- Basketball (rubberized coated indoor dual courts with side angle alleviated lights).
- Cricket (floodlight nets and field with grassy pitches).
- Football (densely grassed field with floodlights).
- Gym Sports/Activities (state of the art gyms with separate rooms for

- Treadmills exercise cycles, stepper, cross trainer, etc.).
- Karate/Taekwondo.
- Rugby (densely grassed field with flood lights);
- Squash (four wooden courts with synthetic front wall and glass back wall);
- Table Tennis (imported tables and partitioned playing space in the main hall);
- Tennis (outdoor courts with rubberized floor and flood lights facility);
- Volleyball (indoor court and outdoor beach courts).

Scholarships

Scholarships for Underprivileged students are offered. Application in writing or via email needs to be submitted to the sports office. 50 % discount for LUMS community including Faculty, Staff, Students and Alumni Families.

Policy for Individual

- Sports academies are organized during the summer break when the facility is free.
- Age-appropriate instruction is offered in classes such as aerobics, taekwondo, tennis, squash, cricket, football, and conditioning.
- Instructional sessions are designed to motivate and develop skills that lead to a lifelong participation.
- Participants shall dress in sports clothing and tennis/gym shoes (non-marking soles).
- Participants shall not wear sandals or other open-toed shoes. Each participant shall bring a kit bag carrying a towel, shampoo, comb, deodorant, an extra shirt, socks, and their own mineral water bottle daily.
- A refreshment stand is arranged during the training program. Participants can avail juices on-demand at concessional rates.
- Participants shall not wear jewelry. University and its employees shall not be responsible for any items that are lost or stolen during the sports training.
- A child may not leave with anyone other than the person authorized on the registration form.
- The child is handed over to the authorized person carrying the security card issued by LUMS SWR Department.
- Parents admitting more than one child may be given a discount on the fee upon tendering a formal application to SWR Office. Approval of said discount is subject to the condition.
- A child may not leave the program early unless written notice is received from the parent/guardian.
- SWR reserves the right to revoke the registration of any child who consistently disrupts normal activities. While this is a rare occurrence, it is important to note that consistent disruptions diminish the experience of the other participants. No refund shall be made if a child is dismissed from the program. Children missing the program for reasons other than medical will not be allowed to make up missed sessions. Split sessions are not available.
- Families of alumni, students, faculties, and staff children shall be given first preference for participation.
- The participants are required to make the payment through an online portal which will be shared with the student/parents.
- LUMS Currently enrolled students' brothers and sisters are eligible to register in the summer camp.

First Aid Disclaimers

- First aid and emergency medical services are available in the sports complex by student volunteers subject to their availability on campus.

- A doctor is also available at LUMS Medical Centre Near to Super Store 24/7.
- All exercise and sports sessions are undertaken at the member's own risk. Management will not be responsible in cases of injury or accident.
- Participants are advised to get a medical doctor's clearance before starting any serious exercise program.
- All personal belongings brought into the premises shall be kept at the owner's risk.
- All Students representing LUMS outside of campus need to submit disclaimers signed by everyone to the Sports office prior to departure.

Students Participation in International / National Sports Competitions

LUMS Encouraging its students to participate in World Universities Sports Leagues, Higher Education Commission, Higher Education Departmental games. Only those players are eligible to represent LUMS who attend training/practice sessions conducted by SWR coaches and selected during annual trails held by Sports Office. Moreover, LUMS Students can only participate in any Sports-related competitions after the necessary approval from Office of Sports, Wellness and Recreation. Sports at LUMS (SLUMS) nominations can be rejected in case players are not as per playing standards of game rules. Any form of supplements/muscle enhancement medicines are prohibited for players.

➤ **Sports Competitions Participation**

- All events participation will be approved by the Head of Sports, Wellness & Recreation at least 7 days prior to the competition subject to the availability of facility / required resources.
- Sports Officials will accompany the teams at outstation competitions.
- One disclaimer will be submitted to the relevant game coach or Sports office at the time of trails.
- One Disclaimers will be submitted to Sports Office at least 3 days prior to the departure for every competition separately.
- LUMS will follow the international playing rules for competitions at LUMS. However, for competitions at other universities, HEC, HED, International and National Levels, hosts rules will be applicable to disqualify the player.
- Players need to submit original educational documents to the Sports Office for necessary verification if needed by HEC, HED or any other tournament organizers.
- Participation in Sports Competitions is voluntary and honor for students so no player can seek any favors from LUMS administration on account of his/her participation in Sports Competitions.

➤ **Petitions for Sports Players**

Petitions will be forwarded to OSA for only the approved list of players for the specific dates and classes after necessary documentation. Late submission at students' end will not be acceptable. OSA will be the final authority to approve or reject the petitions based on the recommendation of the Sports Office.

The verification of participation is the responsibility of SWR. If a student did not participate in the event, they must inform Student Support Services to participate in the event, they must inform Student Support Services (OSA. CCA/SWR will attach all the supporting documents with the request form.

1. Travel tickets or proof will be required for events outside of Lahore.
2. Proof of participation is mandatory if a chaperone/coach is not accompanying. It may include a certificate of participation, event photographs or videos, souvenirs, etc.

3. Students are expected to manage their participation in such a way that it does not clash with the academic requirements.
4. For SWR, a three-step approach will be followed for petitions:
 - i. Pre-approval two weeks prior to the event
If the event is not covered under the policy, the petitions team will forward the case to Associate Dean for approval.
 - ii. SWR staff must immediately inform SSS when the petitioner or team exits the tournament.
 - iii. Students should be informed to send petition forms within 3 days of the missing instrument.
5. Please communicate to the students that they should notify their instructor via email in advance about the instruments they will miss.
6. Students need to submit their petition(s) at petitions@lums.edu.pk within 3 days of missing the instrument.

Policy for participating in extracurricular activities:

In the case of an international event, one extra day before and after the event to account for travel logistics can be petitioned for. Extra days spent on private extensions of the trip will not be permissible.

In the case of sports events, students participating in the following may file a petition:

1. HEC inter-varsity events,
2. Games organized on a national, regional, or international scale.

All sports events other than those prescribed in this policy will not be processed.

Contact Details:

Name	Designation	Contact Information	Ext
Babar Asad Khan	Head of Department	asadk@lums.edu.pk	8165
Shehryar Khawar Latif	Sports Administration Lead	Shehryar.latif@lums.edu.pk	8534
Amir Hussain	Pool Administrator	amir.hussain@lums.edu.pk	3811
Bilal Shahid	Receptionists	Bilal.shahid@lums.edu.pk	3801
Swimming Pool	Staff on Duty	swr@lums.edu.pk	3811

OFFICE OF PROGRAMME ENHANCEMENT (OPE)

The Office of Programme Enhancement (OPE) works to leverage data to support the strategic decision-making processes of the university's senior administration. OPE's core activities revolve around two primary functional areas: Institutional Research, where institution-wide data is used to gauge how well LUMS is fulfilling its mission; and Quality Assurance, through which OPE ensures regulatory compliance and conducts internal quality assessments.

Through institutional research and quality assurance, OPE serves as a vital resource to various stakeholders within and outside the university community. The office acts as the primary interface with the Higher Education Commission on matters related to quality assurance. Furthermore, it is responsible for coordinating efforts for LUMS' placement in world university rankings, for example the Times Higher Education Rankings and the QS Rankings. OPE functions as the central hub for data analytics within the university. It publishes an annual Statistical Handbook to identify trends and support data-driven decision-

making at the institutional level. In essence, through rigorous analysis and by upholding strict standards, OPE identifies areas for improvement and guarantees that LUMS maintains its commitment to excellence in all facets of its operations.

OPE can be reached at ope@lums.edu.pk. Additionally, the following extension numbers can be used: 2269, 2289, 2248, and 2236.

OFFICE OF ACCESSIBILITY AND INCLUSION (OAI)

LUMS takes a great pride in the diversity of its community. With students, staff and faculty coming from all corners of the country and beyond, the University serves as a rich cultural and intellectual hub with varying perspectives and transformative ideas. The campus welcomes members of different ethnic and religious minorities, the transgender community, people with physical, cognitive and/or learning disabilities and aims to make the learning environment not only safe but inclusive and accessible for all.

The Office of Accessibility and Inclusion (OAI) has been set up as a means to fulfil this commitment and is dedicated to the inclusion of all members of the community thereby upholding the core values of LUMS which include merit, academic freedom, integrity, diversity, tolerance and excellence. It aims to provide every member of the LUMS community an equal opportunity to participate in the University's programmes, and benefit from all the available services, just like their peers, and empathetically addresses any issues that might be causing a hinderance in their learning journey on campus.

Work at the Office is informed by conversations, input and perspectives from students, staff and faculty throughout the University resulting in initiatives that are impactful and bring members of the community closer together and foster a sense of belonging.

The University recognizes that each individual is unique with a specific set of challenges and continues to evolve into a campus that is accessible and accommodating for everyone. From scholarships for women to accessible restrooms, academic accommodation, and assistive technologies, LUMS aspires towards a No-Borders agenda; a commitment that no obstacle should come in the way of any individual, from fully experiencing LUMS and the opportunities it has to offer.

Focus Areas

Gender Sensitization

Women, men and members of the transgender community, all experience the campus differently. A female student, a male member of the faculty or a transgender staff member might all move through the campus with completely different vantage points. In order to create understanding and empathy for each other's experience and the challenges it entails, the Office of Accessibility and Inclusion plans to expand on existing gender sensitization trainings on campus and organize relevant seminars and workshops for everyone on campus.

Accessibility

The Office is determined to make all campus spaces accessible to individuals with disabilities. Each disability has its own unique challenges, OAI follows a two-fold approach. The Office is working on making the campus more accessible to people with physical disabilities; we are also looking into assistive technology to help students with learning disabilities excel in their classes, and facilitators for students with visual or hearing impairments. Currently, OAI arranges for facilitators to assist any student who may require help in moving

across campus, taking notes in class, or other hurdles that may become easier with facilitation. Please email us at aaa@lums.edu.pk for more information on how to arrange a facilitator.

Academic Accommodations

In accordance with the HEC Disability Policy 2021, the Academic Accommodation & Accessibility (AAA) wing at the Office of Accessibility & Inclusion (OAI) aims at providing the LUMS community a non-discriminatory and equitable environment for their academic journey. Our office provides support to students with long-standing disabilities which can be visible or invisible in nature through reasonable academic accommodations and/or accessibility facilitation. The process for accommodations can be initiated in the following ways:

1. At the time of admission and recalibrated every semester throughout the completion of the degree program.
2. Before the beginning of each semester to ensure support is in place for that semester.
3. During the degree program, if a student has met with a physical, medical, or mental health condition that hinders their regular ability to function.
4. After the deadline, accommodations may still be considered and the case will be managed after consultation with all relevant stakeholders, keeping in mind the timelines required for documentation and diagnosis.

Students must submit their complete physical and/or mental health documentation when requesting academic accommodations. AAA will provide a guideline document delineating the office's requirements from the students medical or mental health professionals for assessment and granting accommodations. For mental health, students may also obtain their assessment through Counselling and Psychological Services (CAPS) Office at LUMS. After reviewing and verifying all documentation and conducting a meeting with the students, AAA will propose a plan for each student that addresses their accommodations concerns.

Confidentiality is a fundamental value at OAI, so when accommodation plans are shared with concerned instructors and/or relevant departments/schools, the student's disability is not disclosed. For academic accommodations requests and/or queries, students can email us at aaa@lums.edu.pk.

Application Process

1. All applicants must fill out the official accommodation request form. This includes uploading all required medical or mental health reports. QR code for a google form is available outside our office, on key campus boards, and on official websites for easy access. These forms can also be obtained via email at aaa@lums.edu.pk.
2. Book a meeting with the Accessibility Coordinators. The form also directs applicants to a bookings calendar to set up a meeting with one of the Accessibility Coordinators. The one-on-one meeting is a mandatory step towards beginning the processing of the application.
3. Depending on the student's eligibility as per the AAA policy, their proposed academic accommodations plan, comprising of the instruments they require facilitation with, is then shared with the relevant faculty and/or department for implementation. Certain cases may be forwarded to the Accessibility Committee for further evaluation.

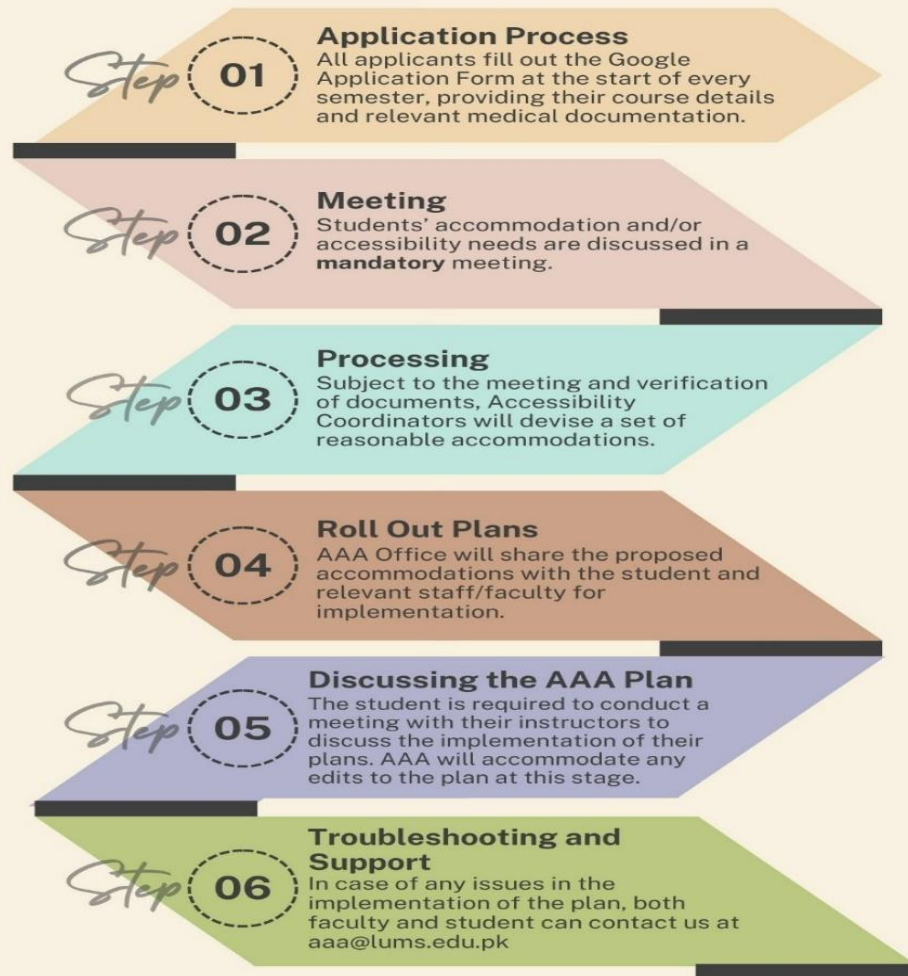
Accessibility Committee (AC)

The members of the LUMS community are governed by the Higher Education Commission Policy for Students with Disabilities at Higher Educational Institutions in Pakistan 2021. The Accessibility Committee follows the rules and guidelines outlined therein.

Academic Accommodation: Things to Know

- Academic accommodations are only applicable from the date they are shared with instructors, and they do not apply retroactively.
- For all missed components, even for students who are on academic accommodations, only a petition can be filed by contacting Student Support Services at OSA and approval of petition will be as per OSA policies. You can also write an email at petitions@lums.edu.pk. AAA does not accommodate missed components under any circumstances.
- Course material and examination formats cannot be modified; only alternative assessment modalities and certain flexibilities can be offered for graded components under academic accommodations.
- Application process for academic accommodations officially begins with the start of the semester and application forms need to be submitted by the students by the end of add/drop week. Timely submission of the application form, documents and booking of meetings or follow-ups will be the students' responsibility, and all steps must be completed within the timelines given by the office at the start of each semester.
- Once a student receives their proposed academic accommodation plan, it is their responsibility to discuss its implementation with each course instructor.
- Students and instructors can both email us at aaa@lums.edu.pk if they face any difficulty with the implementation or are unsatisfied with the adequacy of the accommodations plan.
- If a student's condition changes in any way or, for any reason, a student feels the need to request additional accommodation, they can get in touch with our office and discuss this with the Accessibility Coordinators. Usually, additional documentation is required to assess students eligibility for additional accommodations.

PROCESS FOR ACADEMIC ACCOMMODATIONS



Awareness and Dialogue

A free exchange of ideas is at the heart of the educational experience at LUMS and results in life-changing collaborations, ground-breaking research and transformative initiatives. Building on the University's culture of genuine conversations and dialogue, the OAI plans to have students, staff and faculty interact and engage with each other in a safe and supportive environment. The aim of these initiatives is to provide the LUMS community with the space to share their experience, challenges and concerns as they navigate their life at the University. The hope is that these conversations will further foster awareness and empathy within the community members for each other's varying experiences and individual struggles. One such effort includes conducting university wide Sexual Harassment Awareness Trainings. The purpose of these trainings is to encourage conversation on important matters like sexual harassment, gender, consent, bystander intervention and role of a first responder to create a more informed, respectful, aware, and responsible culture on campus.

Sexual Harassment Inquiry Committee (SHIC)

The members of the LUMS community are governed both by LUMS' own harassment policy as well as the Protection Against Harassment of Women at Workplace Act, 2010. The Sexual Harassment Inquiry

Committee (SHIC), which is housed in the Office of Accessibility and Inclusion, follows the rules and guidelines outlined by these two.

A victim of sexual harassment has the right to bring either an informal or a formal complaint to the committee. Informal complaints are usually resolved through mediation, while formal complaints can include penalties from community service and mandatory counseling to expulsion or ban from campus, depending on the circumstances of any given case.

The SHIC works to resolve cases as quickly as possible, and ideally (assuming full cooperation of all parties) within 30 days. The procedure for a formal complaint looks like this:

The complainant first fills out the official sexual harassment complaint form and questionnaire and submit it to harassment@lums.edu.pk. Along with the form, they should provide as much relevant evidence as possible, such as text communication, photos, or videos, that document the harassment or its impact, as well as a list of potential witnesses to any harassment.

The SHIC will contact the accused and inform them of the complaint, and request they respond to the charges. The accused can provide their own evidence or witnesses and a written statement addressing the charges. They may choose to send cross-examination questions for the complainant and the complainant's witnesses, which will be conveyed by the committee. The SHIS will gather as much evidence and witness testimony as possible. Both the complainant and accused will be given a chance to respond to the evidence and testimony presented by the other side.

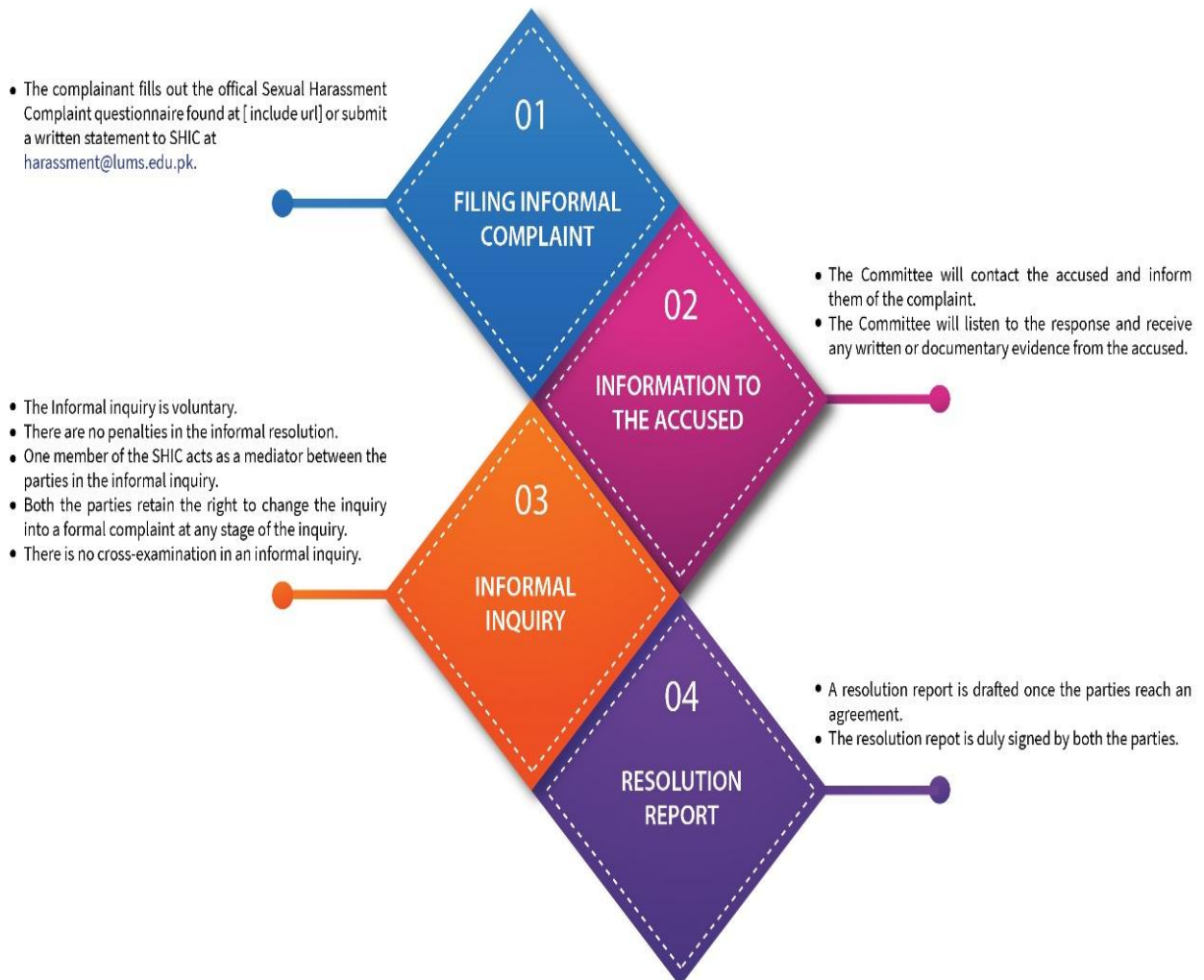
After reviewing all the evidence and testimony and consulting among themselves, the committee provides their decision in the form of a report, that is sent to the Competent Authority (the Vice Chancellor) for implementation. The report is sent to the relevant parties and penalties are carried out through either the OSA or the HR after the VC's approval.

Filing a Complaint: Things to Know

- An informal complaint can be turned into a formal complaint at any time.
- It is paramount that you provide as much and as complete evidence as possible regarding your case. This may include digital communication (not just with the accused, but with others you may have discussed the case with), photographs, videos, audio files, notes from healthcare providers and counsellors, or any other thing you can think of that is relevant.
- Both the complainant and accused can appoint a representative to support them throughout the proceedings. This person need not be a lawyer, they can be a family member or close friend.
- A case cannot be filed on someone else's behalf, nor should any person be pressured into filing a case.
- During an inquiry, involved parties are under a no contact order and must not communicate with each other, even indirectly or through a third person.
- In a formal complaint, all interviews take place under oath, and any party may face disciplinary consequences for lies or misrepresentation in these interviews.
- During interviews at least three members of the Committee will be present, at least one of them shall be a woman. An interviewee can request only male or only female Committee members to be present if desired.
- All parties (the Committee, the complainant, witnesses, the accused, representatives) are bound by strict confidentiality regarding evidence and testimony, and breaching this confidentiality can result in disciplinary consequences.

INFORMAL COMPLAINT PROCESS CHART

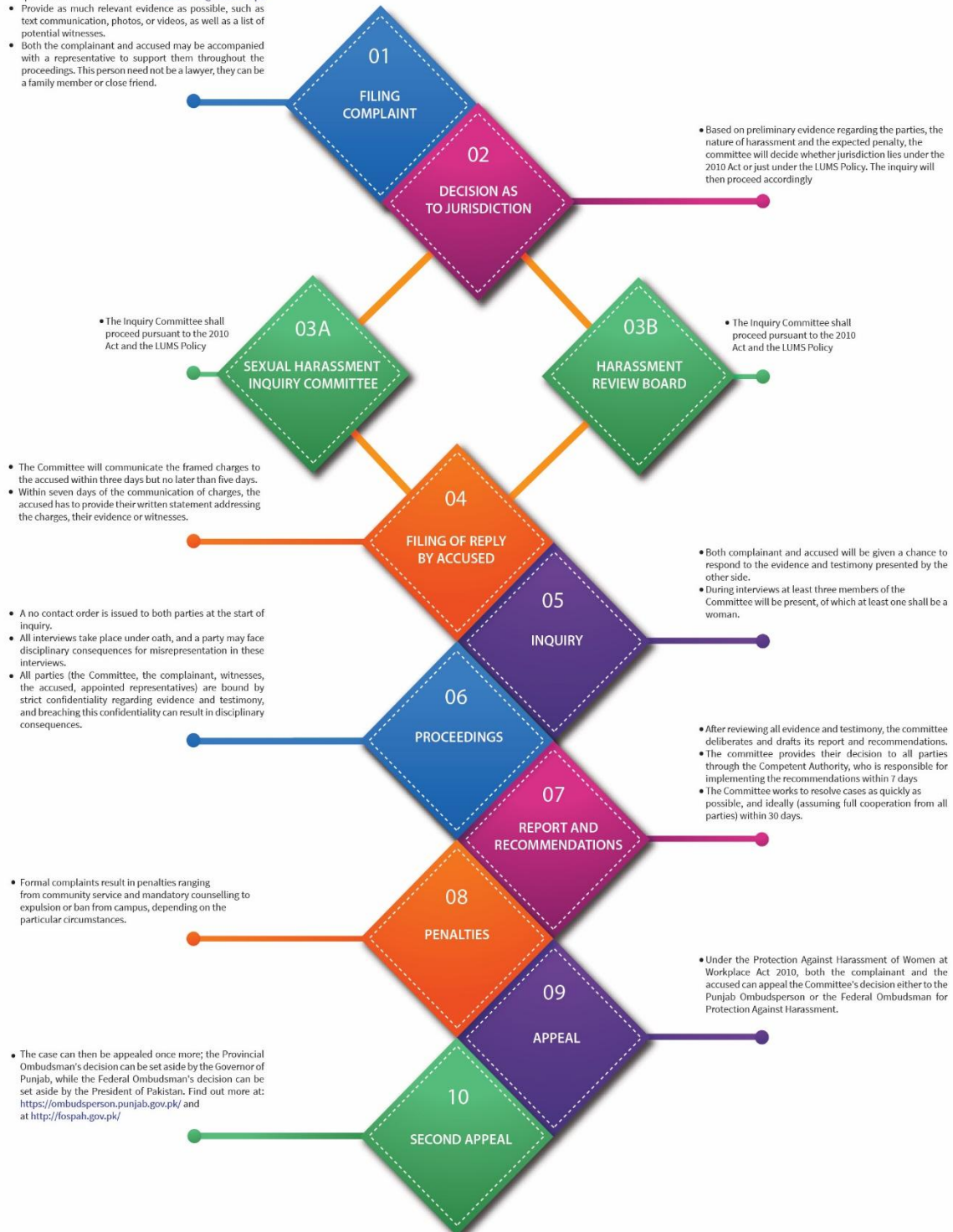
OFFICE OF ACCESSIBILITY AND INCLUSION – LUMS



FORMAL COMPLAINT PROCESS CHART

OFFICE OF ACCESSIBILITY AND INCLUSION – LUMS

- The complainant fills out the official sexual harassment questionnaire and submits it to harassment@lums.edu.pk
- Provide as much relevant evidence as possible, such as text communication, photos, or videos, as well as a list of potential witnesses.
- Both the complainant and accused may be accompanied with a representative to support them throughout the proceedings. This person need not be a lawyer, they can be a family member or close friend.



OFFICE OF INTERNATIONAL AFFAIRS (OIA)

OIA is responsible for coordinating, developing, and expanding the scope of the university's global footprint and international initiatives. The Office acts as a liaison between internal and international entities, facilitates international collaboration in line with global standards, and serves as the source of international opportunities, information and resources. OIA also consults and advises at all stages of partnership development, including identifying funding opportunities, hosting visitors and delegations, and coordinating exchanges with internal and external institutions.

Vision/Mission

The Office of International Affairs (OIA)'s mission is to give strategic and operational direction to LUMS' continuing internationalization. It is focused on building sustainable and mutually beneficial international partnerships that promote quality education and research by initiating and facilitating individual and institutional connections between LUMS and international students, faculty, and staff.

Through greater global engagement the OIA aims to increase the visibility and impact of LUMS around the world. OIA's goal is to create global learning opportunities on campus and abroad, bring international resources on campus, cultivate partnerships and connections with global institutions, and engage its alumni across the world. It is vital for institutions in today's world to maintain a committed, meaningful interaction with the world as a whole and that is what the OIA aims to practice and endorse.

Key Services

The Office of International Affairs is a hub for information about LUMS' international activities. In particular students should contact the OIA for information on study abroad programmes, international exchanges, and summer programmes.

In particular OIA:

1. Provides information about potential international exchanges and other international mobility opportunities.
2. Delivers guidance and support on international exchanges and international mobility; OIA works with students who are interested in participating in a **non-LUMS term time or summer for-credit study abroad** experience.
3. Oversees and manages LUMS' global partnerships, and supports and facilitates global activities for students, faculty and staff.
4. Ensures engagement in all areas of international student affairs, ranging from recruitment and admissions to student support.

Important department specific information

The OIA currently manages 46 student exchange programmes with leading international universities around the world. Through these programmes LUMS students can attend exchange programmes and study abroad for a semester or the summer, sometimes on partially or fully funded scholarships.

A selection of our partner universities:

- Cardiff Metropolitan University, UK
- Queen Mary University of London, UK
- Sciences Po, France
- Excelia University, France
- FH Joanneum University of Applied Sciences, Austria

- University of Regina, Canada
- Koç Üniversitesi, Istanbul, Turkey
- Middle East Technical University – METU, Turkey
- Ozyegin University, Turkey
- Seoul National University (SNU), South Korea
- Chung-Ang University, South Korea
- Universiti Putra, Malaysia
- University of Malaya (UM), Malaysia
- Universiti Teknologi Malaysia (UTM), Malaysia
- University of Passau, Germany
- Universiti Brunei Darussalam, Brunei
- ADA University, Azerbaijan

By promoting internationalization, the OIA helps LUMS to develop global citizens who can positively contribute to making our world a better place. Through global engagement LUMS students gain invaluable insights into world affairs and international problems, as well as perspectives and skill set that set them apart from other Pakistani graduates. Students are graduating into an increasingly integrated international environment that, while offering exciting opportunities, also presents many challenges. Through internationalization LUMS creates educational environments where students fully appreciate the complexity of global integration and develop skills to navigate it successfully.

Contact Details

Zainab Masood

Associate Director, Office of International Affairs
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Saniya Mansoor

Tema Lead – Global Engagement
 Office of International Affairs
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Marwa Ali

Global Engagement Associate
marwa.ali@lums.edu.pk

Facebook: <https://www.facebook.com/OIALums/>

Instagram: <https://instagram.com/internationalofficelums>

Website: <https://oia.lums.edu.pk/>

YouTube: <https://www.youtube.com/channel/UC65dC7IrAWN21tSIE4-Ekpw/about>

OFFICE OF ADVANCEMENT

The Office of Advancement integrates the functions of Marketing, Communications, Alumni Relations, and Development to serve a unified mission: to communicate a compelling narrative, strengthen relationships with key internal and external stakeholders, and support the University's sustainable growth.

Communications

The Communications unit is dedicated to telling the LUMS story in ways that inform, inspire, and engage audiences. As a strategic partner across the University, the team collaborates with diverse stakeholders to craft impactful messages and experiences that enhance the University's reputation and maintain its unique identity.

The unit engages with the LUMS leadership, students, faculty, staff, prospective students, alumni, donors, parents, and visitors to build strong, lasting relationships. As the official voice of LUMS, the team tailors style, tone, messaging, strategies, and platforms to communicate the University's local relevance and global impact.

In partnership with other campus departments, Communications provides a variety of targeted services across print and digital media—from posters, standees, and brochures to official correspondence and institutional reports. The team also produces key publications such as the *Academic Report*, *The University's Profile*, *Campus Stories*, *Life at LUMS*, *LUMS at a Glance*, and the biweekly e-newsletter, *LUMS Connect*, which keeps both internal and external audiences informed about the latest University news and developments.

For more information or any queries, please contact: communications@lums.edu.pk

Marketing

The Marketing unit plays a key role in broadcasting LUMS' vibrant culture of collaboration, learning, and growth. Every year, the team leads several initiatives across traditional and digital platforms to elevate the University's profile, working closely with schools, departments, and other stakeholders across the campus. As brand custodians of the University, the Marketing team strategises, designs, and executes different campaigns to engage multiple demographics and showcase the University's impact on society and industry—involving students, faculty, alumni, partners, and the wider community. The unit also provides a variety of targeted marketing and digital solutions to stakeholders within the University.

Beyond conventional marketing, the team utilises digital platforms like Facebook, Twitter, LinkedIn, Instagram, Google, and YouTube to amplify the achievements of LUMS students, alumni, faculty, and staff. The Marketing unit spearheads promotional efforts for all five schools at LUMS, educating and informing prospective students about different university initiatives throughout the year, and guiding applicants through the academic programmes, campus life, and admissions requirements.

For Fall 2025 undergraduate admissions, the Marketing unit conducted information sessions in more than 200 schools across 34 cities in Pakistan, participated in various expos for prospective students and their parents, organised open days and campus tours, and helped LUMS generate millions of interactions across social media platforms—enabling more people than ever engage with the LUMS experience.

Alumni Relations

The Alumni Relations team works to ensure sustainable and meaningful engagement with the LUMS alumni body. It aims to continuously establish new ways of connecting that better meet the needs of alumni, students, and the University. Engaging alumni means building meaningful relationships with this ever-growing community, deepening their connection to their alma mater, involving them in the University's wide range of initiatives, and offering opportunities that support their professional and personal growth.

To facilitate networking, Alumni Relations has formed alumni chapters in various cities and countries around the world. In addition to providing a forum for socialising, these chapters are a source of great support for newcomers to the area. They also contribute to the University's marketing, placement, and fundraising efforts. To facilitate even closer networks amongst the alumni, Alumni Relations has also formed affinity groups and alumni associations such as the SDSB Alumni Association, the CSS Alumni, the CS Alumni Network, and the Law Alumni Association and aims to create more in the future.

Alumni Relations communicates with the alumni community through the alumni website, the Connect portal, the annual alumni magazine, alumni social media pages, and a quarterly alumni e-newsletter. Through these channels, alumni can access the latest information on LUMS, job openings, alumni benefits, corporate discounts, faculty research, alumni success stories, activities of LUMS alumni chapters, and general news and announcements. A major part of alumni engagement revolves around reunions and events. Batches and chapters get together for different kinds of reunions throughout the year, from batch teas and mentorship workshops to guest speaker sessions and class reunions. The flagship event of the year for the alumni community is Homecoming, where alumni are welcomed back to campus for all kinds of knowledge sharing and entertainment.

Alumni can also avail several privileges through the LUMS Alumni 'Smart' Card, including LUMS car parking stickers, discounted accommodation at REDC, access to LUMS sports and library facilities, and a range of corporate discount offers. Alumni Relations provides a programme of events and activities to help graduates make the most of the global network of more than 20,000 alumni, generating opportunities for alumni, friends, and supporters to stay involved with the University.

For more information or in case of any queries, Alumni Relations can be contacted at alumnirelations@lums.edu.pk.

Development

The Development team is dedicated to nurturing relationships with donors through donor outreach and donor stewardship. The donor outreach team strategically seeks to maximise grants received for student scholarships, infrastructure, and research. Stewardship works toward building and maintaining relationships with donors and creating a mutually beneficial relationship to encourage repeat gifts.

Funds are solicited from a diverse pool of donors, including corporations, high net-worth individuals, alumni, foundations and trusts, international agencies, and public sector organisations. Through the efforts of the Development team, generous scholarships are offered to students every year through the National Outreach Programme and Financial Aid. Currently, 1 out of 3 students are receiving different scholarships, ranging from 20-140% of tuition fee.

Renowned for academic excellence, LUMS is also leading in groundbreaking research. To support research and innovation at LUMS, the Development team actively seeks partnership opportunities with corporations

and foundations to establish grants and endowed chairs. Development also facilitates naming opportunities for donors interested in naming infrastructure and other spaces in LUMS.

For more information or in case of any queries, please contact the Development team at giving@lums.edu.pk

LUMS LEARNING INSTITUTE (LLI)

LLI is a development center at LUMS, dedicated to enhancing teaching, learning, and career progression within the higher education sector – faculty, staff & students alike. Over the last four years, we have distinguished ourselves by offering a wide range of developmental programs that have significantly impacted learning and development – both within and outside of LUMS.

At our core, we empower LUMS faculty with cutting-edge **pedagogical strategies**, offering workshops on instructional skills, course design, and integrating peer feedback to improve student learning. We have also collaborated with faculty members to create **discipline-specific learning** experiences in areas such as Economics, Law, Business, Languages, and Data Science, which have contributed to enriching the academic environment at LUMS.

In addition to pedagogical support, we have developed specialized training programs in various **generative AI tools** for a diverse audience. These training courses are designed to meet specific needs, such as course and assessment design for faculty, and productivity enhancement for professionals, as well as AI interventions tailored for developers and data scientists at LUMS.

For the Students at LUMS

Other than faculty & staff facing development initiatives, LLI also plays a vital role in **empowering students with lifelong skills** that may enable them to become resourceful professionals of the future.

Pedagogical Partnerships Program

Students are involved in **pedagogical partnerships**, contributing to course content, delivery, and assessment tool development with formal training and guidance from LLI team

In this non-evaluative, collaborative relationship, students offer weekly feedback and work with instructors to co-develop more engaging, inclusive, and effective learning experiences.

How it benefits you:

- Gain behind-the-scenes insight into teaching practices.
- Develop critical thinking, communication, and collaboration skills.
- Contribute to improving classroom inclusivity and engagement.
- Build professional relationships with faculty.
- Receive recognition and mentorship that can support academic and career growth.

Whether you're an undergraduate curious about education, or a graduate student considering academic careers, PPP gives you an insider's view of pedagogy while making a tangible difference in the classroom. Refer to our website for more information on how to participate in this program: lli.lums.edu.pk/pedagogical-partnership-program

TA Development Programme

The **Teaching Assistant (TA) Development Course** is a structured program designed to prepare undergraduate and graduate students for their roles as TAs across LUMS. This course equips you with essential teaching, facilitation, and communication skills to ensure that your contributions in the classroom and beyond are effective, ethical, and impactful.

Through interactive sessions, practice-based modules, and reflection activities, the TA Development Course covers key topics such as:

- Roles and responsibilities of a TA
- Inclusive and student-centered teaching practices
- Effective communication and feedback techniques
- Managing classroom dynamics and student questions
- Academic integrity and ethical conduct
- Time management and professionalism in academic settings

You will also engage in scenario-based learning, peer discussions, and feedback exercises to prepare for real-life classroom challenges. In order to know more about the course please visit lli.lums.edu.pk/TA-development-course.

Students as Co-Researchers Program

ScR positions students as **co-researchers** in academic projects related to learning and teaching at LUMS. For your SPROJ, you have the option to collaborate with faculty on inquiry-based research, investigating real questions about student experience, curriculum design, and inclusive learning practices.

How it benefits you:

- Engage in meaningful, applied research that influences institutional policy and practice.
- Co-author presentations or publications.
- Enhance your research portfolio, especially useful for graduate school or academia.
- Explore the intersections of education, equity, and social justice.
- Help shape a more responsive and student-centered university environment.

Graduate students in particular may find ScR a powerful complement to their academic work, offering mentorship, methodological training, and the opportunity to contribute to the scholarship of teaching and learning (SoTL). Read more about ScR program at <https://lli.lums.edu.pk/students-co-researchers>

For more information about the LUMS Learning Institute (LLI) and how you can get involved in any of our student-focused programs, please reach out to:

✉ Email: lli@lums.edu.pk

📍 Attn: Ms. Amna Ikram, LUMS Learning Institute

Stay connected. Be a partner in learning. Shape the future of education.

CENTRE FOR CONTINUING EDUCATION STUDIES (CES)

The Centre for Continuing Education Studies (CES) at LUMS is dedicated to extending educational opportunities to diverse learning communities in Pakistan. Our programmes, designed and delivered by

highly acclaimed industry experts and academics, are tailored to the needs and expectations of learners from various walks of life.

Through an extensive range of online and on-campus courses offered in various fields, CES seeks to support students, professionals, and non-traditional learners to pursue their newly found interests, rediscover old passions, develop professional expertise, and expand their intellectual horizons. The Centre for Continuing Education Studies (CES) offers courses with flexible durations ranging from weekend-long workshops to short courses in the evenings.

Taught by LUMS alumni, faculty, and leading industry professionals, these courses are primarily geared towards individuals who are not necessarily looking to enrol in a degree programme but are curious about a new subject, want to pursue a lifelong interest or cultivate a particular skill set. With the exception of a few, most courses have no prerequisites and are open to anyone interested.

Course offerings at CES cover the following areas:

- Professional Development
- Creative Arts
- Languages and Cultural Studies
- Teaching and Learning

In addition, CES offers Pre-College Programmes designed specifically for students aged 8 to 19, allowing them to explore future academic and career pathways while experiencing a preview of college life. These programmes are structured as follows:

- **Young Learners Programme:** Designed for students aged 8-13, fostering curiosity and providing a strong academic foundation through interactive learning, focused on early development and curiosity-driven education.
- **Pre-College & Secondary School Programme:** An immersive programme for high school students (ages 14-19), offering specialised learning, networking, and college application guidance.

Contact Details:

Website: ces.lums.edu.pk

Email: ces@lums.edu.pk

Contact Numbers: 0300-8496861, 0300-4027198

THE GAD AND BIRGIT RAUSING LIBRARY

The Gad and Birgit Rausing Library at Lahore University of Management Sciences serves as a centre for information resources and knowledge for the faculty, researchers and students through its wide range of collections, competent staff, high-quality infrastructure, and innovative services. Currently, the Library has collection of over 300,000 books and documents, access to about 240,000 electronic books, 2500 Audio-Visuals, CDs & DVDs, and subscriptions to 200+ print journals. It also provides campus-wide and off-campus access to over 40,000 full-text online research journals published between the 1800s and the present. The Library maintains press clippings from leading national newspapers on 51 broad subject areas related to subjects offered at LUMS.

In line with the Library's mission to excel in supporting its users' academic and scholarly endeavours regarding their core instructional and research requirements, the Library continuously strives to introduce user-focused resources and services.

Library Services

The Library offers a variety of services to its patrons to meet their academic and research requirements. These include but are not limited to the following:

- **Course Guides:** The Library has developed these guides on core subjects being offered at LUMS using the state-of-the-art content management system, LibGuides. This service enables library users to find their required content on specific subject areas through a customized interface. The guides on all subject areas and their relevant courses have been developed and regularly updated by the professional library staff.
- **Self-Check-out/check-in:** The self-check kiosk enables users to check out/check-in and renew library material without any intervention from the Library staff. This service saves the time and effort of the users.
- **Digital Scanning:** Two digital scanners are available in the Library (one on each floor). Users can digitize their required content (within copyright limits). This service is environmentally friendly and saves time and paper.
- **Kindle e-readers Issuance:** Kindle e-book readers have been made available for issuance (for fourteen days). Kindles are pre-loaded with classics, fiction and course packs. Some of these readers are also configured to access more than 40,000 online journals and over 240,000 e-books.
- **Book Alerts:** Lists of fresh arrivals are circulated to users and posted on the Library portal at <https://library.lums.edu.pk/library-books>
- **Document Delivery:** If an article or a document is unavailable in the Library, arrangements are made to acquire the same from other libraries through interlibrary loans and international document delivery services.
- **Off-Campus Access through VPN:** The Library also provides off-campus access to its resources through Forticlient (SSL VPN).
- **Teaching Resource Centre:** The teaching resource and circulation librarian helps get instructor manuals, tutorials, PowerPoint presentations, test banks, course outlines, student handouts, and solution manuals of other universities.
- **Reference and Research Support:** Two specialized helpdesks (one on each floor) have been set up to provide in-depth reference and research support services. Users can visit these helpdesks, make telephonic contact, email, and live chat to seek assistance from library professionals. The web chat facility is available at <https://library.lums.edu.pk/live-chat-library>. The Library also facilitates its users in searching their required literature to support their academic and research endeavours.
- **Information Literacy Sessions:** LUMS library imparts information literacy among its users through Research Skills Enhancement Sessions, orientations of new entrants, and in-class sessions. These sessions help library users' understand library resources and services and equip them with the necessary research skills.
- **Citation Management Tools:** Providing access to various citation management tools like Endnote, Mendeley, and Zotero through the Library is another step towards augmenting research activities at LUMS. The library website also presents a comparative analysis of various citation tools, thus facilitating the selection of the most suitable one.
- **SMS alerts:** The Library has initiated an SMS alert service for its users. Now, the users receive SMS alerts from LUMS Library two days before the due date of issued items.

- **Plagiarism Detection Support:** The Library facilitates the LUMS community's access to similarity/plagiarism detection services through Turnitin. It provides training regarding the access and use of the tool. Dr Muhammad Safdar (muhammad_safdar@lums.edu.pk) can be contacted for any assistance.
- **Multimedia:** The Library provides access to audio-visual material, including DVDs, CD-ROMs, and videos, which can also be borrowed. The multimedia section is equipped with Cable TV, VCR, and CD/DVD players.
- **Wireless LAN:** The Library is a Wi-Fi-enabled area providing Internet connectivity to fast-growing smartphones, notebooks, and laptops.
- **Donating Books:** The Library has initiated the campaign "Love your books, then share them" among the LUMS community to motivate the maximum usage of books by a maximum number of readers. A donation shelf has been placed near the newsletter section for the placement of donated items. There are few conditions, such as the title should be in good condition and should not be in a state such as dirty or damaged (brittle, yellowing, torn, or missing pages) for donations' acceptance. Anybody can take away the books placed on the shelf reserved for donation or drop the title he/she wants to donate.

Organization of Collections:

The Library consists of two floors. The books and other reading materials are managed into various sections according to the specific nature of the collection. The Library uses the Dewey Decimal Classification Scheme to classify its knowledge resources.

The ground floor houses collections on Business, Computer Science, Pure Sciences, Engineering, magazines, journals, theses and dissertations, graduate students' projects, and course reserves. Photocopier, multimedia, self-check machines, e-kiosk, digital scanner, finishing corner, laptop and mobile charging units, bookshop, and circulation counter are available on the same floor.

The first floor (Khalid Ishaque Wing) houses books on Economics, Humanities & Social Sciences, Law, Politics, History, Languages & Literature, Rare Books and the Oriental collection. It also has a Research & Scholars Commons, Learning Commons, laptop and mobile charging units, digital scanner, digital access centre, finishing corner and a reading lounge.

Electronic Resources:

The Library's electronic resources are growing at a fast pace. It provides access to a wide range of electronic resources, including e-databases, e-journals, and e-books. These resources are accessible even off-campus through Forticlient (SSL VPN). Some of the important resources are:

- **SCOPUS** – <http://www.scopus.com/>: Scopus is the largest abstract and citation database of peer-reviewed research literature. With over 30,000 serial titles, it facilitates access to analytical tools that help you stay up-to-date. Scopus helps researchers by offering access to literature's abstracts and identifying the status of journals related to diverse fields of studies, including pure sciences, applied sciences, social sciences, and arts & humanities.
- **Grammarly** - <https://www.grammarly.com/edu> Grammarly is an automated tool that helps in identifying spelling mistakes, grammatical errors, improving sentence structure and vocabulary usage. Grammarly will not edit your work for you; it is up to you whether you decide to incorporate Grammarly's feedback or ignore it. Grammarly can be integrated with MS Windows.
- **Science Direct** - <http://www.sciencedirect.com>: it is the world's leading electronic collection of journals and provides access to the full text of research documents. The database covers a wide range of subjects including business, management, mathematics, computer science, and economics.
- **Art Full Text** - <http://search.ebscohost.com>: Art Full Text is a comprehensive resource for art information featuring full-text articles from more than 300 periodicals dating back to 1995, high-quality indexing and

abstracting of over 600 publications dating as far back as 1984, including 280 peer-reviewed journals, as well as indexing and abstracting of over 13,000 art dissertations. Indexing of almost 200,000 art reproductions provides examples of styles and art movements, including works by emerging artists. The database covers fine, decorative, and commercial art, folk art, photography, film, and architecture and includes a database-specific thesaurus.

- **Wiley InterScience** - <http://onlinelibrary.wiley.com>: This resource offers access to over 2000 leading journals. It covers the full spectrum of science, technology, engineering, medicine, business, social sciences, and humanities.
- **SpringerLink** - <https://link.springer.com/>: One of the world's leading online information services databases for scientific, technical, and medical books and journals. Over 3000 journals are available with back files.
- **Business Source Premier** - <http://search.ebscohost.com>: Business Source Premier is the most popular business research database that features the full text of more than 2,150 journals. The full text is provided for journals published since 1886; searchable cited references date back to 1998. Additional full-text and non-journal content includes market research, industry, country, company profiles, and SWOT analyses.
- **Emerald Insight** - <http://www.emeraldinsight.com>: Emerald Insight provides full text of all 350+ Emerald online journals available, with full-text back-files, many going back to the 1990s, with abstracts going back in some cases to the 1980s.
- **Informa Journals** - <http://journals.informaworld.com>: It has 17 scholarly journals, including the flagship journals Operations Research and Management Science. It provides full-text access to the subscribed content.
- **IEEE Xplore** - <http://ieeexplore.ieee.org>: IEEE Xplore provides full-text access to 3732 journals, 664 magazines, 186 early access articles and over 2700 conferences.
- **ACM Digital Library** - <http://portal.acm.org>: ACM digital Provides access to magazines and journals in computing and IT, with a complete archive reaching back to the 1950s. It also includes the ACM Special Interest Group newsletters and conference proceedings, many with full archives in 34 distinct areas of information technology that address your varied interests - Programming Languages, Graphics, and Mobile Communications etc.
- **American Chemical Society (ACS)** - <http://pubs.acs.org>: With a comprehensive portfolio of more than 85+ journals, including 12 "gold" completely open access journals, ACS Publications has a home for every variety of research.
- **JSTOR** - <http://www.jstor.org>: Full runs of more than 2,800 top scholarly journals in the humanities, social sciences, and sciences. JSTOR works with a diverse group of nearly 1,200 publishers from more than 57 countries to preserve and make their content digitally available..
- **LEXIS ADVANCE** - <http://advance.lexis.com/>: It provides access to over 3.5 billion public records, including state and federal case law; codes and statutes; court documents, and extensive secondary materials.
- **ProQuest e-books Central**: It offers an increasing selection of more than 40,000 e-books in business, economics, computers, engineering and technology.
- **Oxford English Dictionary**- <http://www.oed.com/>: The Oxford English Dictionary is the accepted authority on the evolution of the English language over the last millennium. It is a guide to the meaning, history, and pronunciation of over half a million present and past words. It traces the usage of words through 2.5 million quotations from a wide range of international English language sources. The OED covers words from across the English-speaking world. It also offers etymological analysis and listings of variant spellings.
- **EastLaw**: EastLaw.pk contains an archive of more than 300,000 legal documents. Our legal research tool provides top-quality information with an interface which makes the research a quicker, easier and more effective process. EastLaw.pk provides its users with the opportunity to research their preferred area of

practice and the option to save it in their dashboard.

- **HeinOnline:** <https://heinonline.org/HOL/Welcome> HeinOnline is a premier online database containing more than 173 million pages and 270,000 titles of historical and government documents. HeinOnline bridges an important research gap by providing comprehensive coverage from the inception of more than 2,700 law-related periodicals and contains the entire Congressional Record, Federal Register, and Code of Federal Regulations back to 1754. Complete databases are dedicated to treaties, constitutions, case law, world trials, international trade, and foreign relations.
- **ProQuest Social Science Premium Collection:** <https://www.proquest.com/> This collection provides access to databases covering the international literature in social sciences, including politics, public policy, sociology, social work, anthropology, criminology, linguistics, library science, and education. Featured databases include IBSS, Sociological Abstracts and Worldwide Political Science Abstracts. Together, they provide abstracts, indexing and full-text coverage of journal articles, books, book chapters, dissertations, working papers, and more.

Information Retrieval System:

The Library is continuously introducing user-focused innovative information access and retrieval systems. The Library uses state-of-the-art Integrated Library System VIRTUA, which is accessible (On-campus as well as Off-campus). The software facilitates access to the library catalogue, users' accounts, and other personalized services. Below are the major access points for users to explore the Library's resources and services:

- **The Library Website** (<http://library.lums.edu.pk>) provides a comprehensive gateway to a wide range of online and print library materials. It is a primary source of information about library collections, services and facilities. Users' self-sufficiency and ease of access are focused while designing a single, coherent, remotely accessible service.
- **CHAMO Library Portal** (<http://libraryportal.lums.edu.pk/>) provides access to the library catalogue and secure access to patron accounts. Users can conduct many transactions like reissuing books online, reserving checked-out items, viewing fine details, initiating book purchase requests, exporting bibliographic records, and tagging library items. Patrons can save a search query for future retrieval, set alerts by email, and use RSS for books and journals of interest.
- **Course Guides:** Library Course Guides enable the users to find their required content on specific subject areas through a customized interface. Guides on all disciplines related to the courses offered at LUMS are developed and regularly updated by the relevant professional library staff.
- **Full Text Linking with SCOPUS and Google Scholar:** The Library has enabled full-text linking of subscribed contents with the world's most popular search engine Google Scholar and the largest peer-reviewed indexing source SCOPUS. Users can get the required full text while searching from these sources.

Library Environment:

The Library is a pollution-free area – no eatables, mobile calls, loud discussion, and drinks (except soft water) are allowed in the Library.

Opening Hours

The Library is open seven days a week and around the clock during exams.

Monday – Friday: 08:30 AM to 02:00 AM

Saturday & Sunday: 10:00 AM to 10:00 PM

During Exams: 24/7

The Library remains closed on public holidays.

Library Usage Policy:

- Users can bring their personal belongings, such as handbags, briefcases, etc., inside the Library at their responsibility.
- Submit any book for inspection when requested by the library staff.
- Do not write, underline, or mark any book. Library books are carefully examined on return, and the borrower is held responsible for any damage.
- Please leave books on the table or the book trolley after reading. Please do not shelve the books.
- Complete silence should be observed except for brief and subdued talk with the library staff.
- Drinks and eatables are not allowed in the Library.
- Smoking is strictly prohibited in the Library.
- Keep your mobiles switched off/silent within the Library premises.
- Students wearing shorts are not allowed inside the Library.
- Do not change the configuration of computers or any other equipment in the Library. LUMS IT code of conduct must be observed while using IT applications.
- The Library is not responsible for any losses; please do not leave your belongings unattended.

Lending Rules:

Students become members of the Library upon their admission at LUMS. However, they must sign the "Relationship Form" to activate their membership. All registered users are entitled to borrow materials from the Library. Borrowing privileges may differ depending on the membership category. The borrowing privileges for course reserve* and general books are:

MEMBERSHIP CATEGORY	BORROWING PRIVILEGES	DAYS
Undergraduate Students	8 books	14
Graduate & Postgraduates	15 books	14
Teaching Assistants	8 books	14
Research Associates	15 books	14
Faculty	30 books	120
Staff	4 books	14
External Members	4 books	14

**Active course reserve are issued for three hours.*

- Presentation of a valid LUMS smart card is necessary for any checkout at the circulation desk.
- The loan may be renewed if another user has not reserved the desired book. Overdue books will not be renewed online.

- Books already checked out by some other user/s can be reserved. Users can also request to reserve the book/s through iPortal.
- Reference material such as CD-ROMs, annual reports, pamphlets, current and bound periodicals, IA (industrial advisory) reports, thesis/dissertations, student projects, reference books and newspapers cannot be checked out. They can only be consulted within the library premises.
- A photocopying facility is available where copyright rules permit.
- If you accidentally misplace a book and cannot find it after a thorough search, report this to the Circulation Desk immediately to avoid an overdue fine.
- Mutilation of library material can lead to disciplinary action against the perpetrator. Books accidentally damaged should be reported so that suitable assessment can be made, and damages can be collected/imposed.
- The Library material borrowed by any member is subject to recall if needed by the Library. A fine may be imposed if the recall request is not entertained.
- Any material not returned or renewed within 60 days of the due date is considered LOST.

Fines:

To encourage the timely return of library materials and to provide optimal sharing of the collections, fines are charged for overdue items. Borrowers are responsible for returning or renewing items by the due date. If items are not returned within the due date, fines become retroactive to the first overdue day at the following rates.

- Overdue Books: Rs.10/- per book per day.
- Lost Books: In case of loss or damage, the patron is charged three times the item's current price.
- Active Course Reserve: This material is issued for three hours only. If the material is not returned within the allotted time, a fine of Rs.50/ for each extra hour is charged.
- Disciplinary Fine: Rs. 500/- on the first-time violation, Rs. 1000/- on the second-time violation. If the patron continues, the case will be referred to the Disciplinary Committee.
- Overdue and fine notices are sent through official email. The payments can be made through Accounts department only. Library account is blocked if the fine exceeds Rs. 5,000/-.

INFORMATION SYSTEMS AND TECHNOLOGY (IST)

Teaching and Learning at LUMS is technology – intensive. LUMS offers a rich and diverse computing environment that effectively meets the productivity requirements of its students, faculty and staff. Information Systems and Technology (IST) supports academic and administrative computing systems and spearheads IT-initiatives to ensure adequacy of the technology infrastructure.

Each day, the LUMS community plugs into a vast campus network. Those who are off-campus have secure, web-based access to online course support services such as enrollment, assignments and grades, message boards, and e-mail. Wireless access is available in all the buildings, covered areas, and some of the selected outdoor points such as outside of the Law School, SBASSE, SDSB, Library buildings, and student sitting area outside of KHOKHA, PDC, EDH and Sports Complex. . Internet access at LUMS is fast and reliable. The campus currently consumes a total of 3.5 Gbps of internet bandwidth across its labs, offices, and residences.

Computing Labs

There are eight general-purpose computing labs with approximately 478 PCs at LUMS. Four computing labs are located on the second floor of the library building, one lab with 82 computers in the SDSB building

("Trading Lab"), one lab with 60 computers in the SBASSE basement ("Sohail Aslam Lab"), one lab with 102 computers in SBASSE ground floor ("Programming Studio"), and one lab with 20 computers in LAW School ground floor ("UBL Lab"). Computing resources, printing facilities and support in the library building labs are available 24x7. All the computing labs are equipped with high-end workstations, document scanners, multimedia equipment and high-speed laser printers.

Apart from the general computing labs facility, there are four computing labs in SBASSE, having a seating capacity of 25 computers each. These labs are located on 1st, 2nd, 3rd and 4th floor of the SBASSE building. A student may reserve a PC in the lab with custom installation of required software or hardware. Computing labs may also be reserved for a fixed period exclusively for specific group at the request of a faculty member, authorized staff and president of society. Lab reservation hours are posted by the lab staff and students are expected to observe them.

Email

Every student is provided with a LUMS email account, hosted on Microsoft Office 365 cloud services. Webmail is accessible via <https://outlook.office365.com/>. Students are strongly advised to check their emails regularly as communication between most departments and students is through this channel. At times homework is also assigned over email.

Printing Services

Laser printing facilities are outsourced to vendors. Printers are spread throughout the campus. Contractor shops are located alongside the visitor's car parking where you can pay and get the printing quota. You can also top up your printing quota from the IST labs as well.

Academic Software

Academic software that IST provides in computing labs are:

Microsoft Office, MS Visio, MS Project, Matlab, Mathematica, STATA, WinRAR, Adobe Acrobat Professional, Adobe Photoshop, Adobe Illustrator, Microsoft Publisher, SPSS, AMOS, Eviews, Scientific Workplace, Maple, MicroC Pro, Palisade decision tool suite, ChemDraw Ultra, , OSIRIS, Softech, Refinitive databases, Abby fine reader, ArcGIS, Endnote, Graphpad, Prism, Inpage, Math type, Maxqda , NVIVO, PSIM, Snap Gene, SAP GUI Client, TSP, R&R Studio, Anavonda, Power BI, Unity Hub, and AspenTech.

LUMS has also subscribed to the Microsoft Developer Network (MSDN). Any software that is available through the MSDN subscription can be installed per request on the computing lab per class requirement.

Student Information System (Zambeel)

Zambeel is a consolidated online platform used by the LUMS community to access information and record transactions related to:

- Student Personal Information
- Sole Medium of Student Record
- Semester Registration and Enrollment
- Term Schedules
- Student Financials
- Academic Advising
- Grading
- Graduation Requirements

Students must use their respective campus ID and password to access Zambeel self-service from the web (<https://zambeel.lums.edu.pk>)

Important: *It is vital that you do not share your password with anyone.*

Learning Management System (LMS)

Sakai, the learning management system used at LUMS, provides a convenient online environment for teaching and learning, as well as student-faculty collaboration. Features include assignment management, course material upload, course websites, online discussions, as well as the ability to conduct online quizzes and to grade them.

Students have to use their respective campus ID and password to access LMS via <https://lms.lums.edu.pk>

Video Conferencing Facilities

Video conferencing facilities are also available on-campus, enabling students and faculty to effectively collaborate with researchers and scholars across the globe. The University has conducted thousands of successful video conferencing sessions with national and international groups and individuals during the last few years.

The LUMS has subscribed for Zoom and Microsoft Teams to facilitate our valued faculty and students for Lecture Delivery/Meetings and conduct online webinars, talks, conferences, and open houses. These are Audio/Video Conferencing solutions that allow real-time sharing of audio, video, slides and chat. The University has successfully conducted online and hybrid semesters through these platforms.

Lecture-Capture and Streaming

Many lecturers choose to use lecture-capture technology where class lectures are recorded and placed online as soon as the class completes, providing students a great resource to refer to while preparing for exams or in case they skipped a lecture. IST offers live streaming/broadcasting of events through the Facebook pages. LUMS has successfully broadcasted several events including the Convocation Ceremonies.

Information Security

(InfoSec@lums.edu.pk)

Information Security team at LUMS is responsible for incidents such as password theft, compliance against Government regulations, unauthorized access etc.

However, instead of relying entirely on information-security professionals to prevent infiltration and minimize vulnerabilities, this team facilitates behavioral change and develops a culture of continuous learning and security awareness.

Queries/concerns about Information Security Policies are also managed by this team.

Sometimes users received phishing and fraudulent emails impersonating higher management or faculty, requesting urgent assistance with a funds transfer or asking for personal information, including passwords.

We urge you to remain vigilant and take the following precautions:

- **Verify the Email Address:** Always check if the email address is official. Official university emails will not come from personal addresses like Gmail, Yahoo, etc. If the email address is not official, ignore the email.
- **Evaluate the Content:** Phishing emails often contain generic and ambiguous language. If the message seems suspicious or unusual, do not respond or click on any link asking for the personal information or passwords.
- **Contact the Sender Directly:** If you are unsure about the legitimacy of an email, contact the sender through an alternative communication method such as phone or WhatsApp. Do not use the contact information provided in the suspicious email.

If you have any doubts or receive any suspicious emails, please report them to the IST department immediately at infosec@lums.edu.pk

LUMS IST Helpdesk

The LUMS IST Helpdesk is a technical support team that provides prompt, knowledgeable and courteous desktop computing support services over the phone, in person, and via web and email to LUMS. The Helpdesk aims to resolve all interactions with at least 80% or above satisfaction. If this is not possible, the inquiry is escalated to provide alternative referrals or resources. If the problem or request concerns an unsupported operating system, hardware, software or service, staff will do their best, given call volumes, to suggest other avenues of support. The helpdesk mission is to ensure a positive experience and a speedy resolution resulting in the efficient use of technology tools for our academic setting.

Computer Lab Usage Policy

LUMS computing facilities are designed to be used in connection with legitimate, University-related purposes. The following are considered as rules of computing lab usage. Failure to abide by these can result in the offender's account being disabled for a certain period, plus a monetary fine or a referral to the Disciplinary Committee.

General:

- Access to computing labs is only allowed to students with identification. Lab staff may request students to produce their LUMS student ID card and may request to leave the lab otherwise.
- IST strives to maintain a quiet, work friendly environment in its computing labs in order that lab users can use their time productively and with minimal distractions.
- Computing Labs are a work area; therefore, no food or drinks (including water) are allowed.
- Students are responsible for ensuring the confidentiality of access rights under their control. For instance, release of a password, whether intentional or inadvertent, invites misuse by others may be subject to disciplinary action.
- Damaging or misusing the lab equipment and furniture can result in penalties.
- Putting feet on the chairs and sleeping in the labs is not allowed.
- Installation of any software without permission of the IST staff is not allowed.
- Playing games is strictly not allowed in any of the computing labs.
- Use of computing and communication resources to support a profit entity (including any personal business) is strictly forbidden.
- Illegally downloading any copyrighted material (e.g., software, music, videos, books, photographs, etc.) is prohibited.
- Students should not leave papers, trash, books or bags on computer terminals/desks.

Hostel LAN/Wireless Usage Policy

The campus network is a facility that is to be used responsibly at all times by all members of the LUMS community. Hosting and transmitting material which is designed or likely to cause annoyance, inconvenience or needless anxiety to anyone is against usage norms and will lead to action against individuals and groups involved in such activities.

- Internet Browsing from Hostels is monitored, and students are advised to avoid accessing pornographic material or any objectionable site. In case a student is found browsing through objectionable site, serious action leading to the termination from the registered program is taken.
- Password sharing of any server of LUMS is considered as violation of the computer usage from the hostel. In case any attempts or activity is recorded from the login of a student, his/her account is disabled along with that of one whose password was used.
- Use of hacking tools and attempts to hack campus equipment will lead to disciplinary action including termination of the room computer node for indefinite period.
- Disabling of room nodes is made in case the activity falls under hacking, scanning etc. or the log in shows access to objectionable sites, or attempts to compromise other internet sites from the hostel LAN.
- Access to P2P sites is limited as they consume a lot of internet Bandwidth and may contain illegal material.
- Setting up personal or any wireless access point or routers without IST's prior written permission.

Note: In case of a violation, disciplinary action is taken against the student as per university rules and regulations.

Violations & Fines:

- Penalty for sending out mass emails can range from a fine of Rs. 5,000 to Disciplinary Committee referral.
- Allowing a fellow student to use your account will result in a penalty of Rs. 3,000.
- Violating lab rules for the second time will result in a penalty of Rs. 3,000.

Disciplinary Action:

- The use of computing resources to disseminate obscene, pornographic, or libelous materials, to threaten or harass others, or otherwise to engage in activities forbidden by this Code.
- Tampering with the lab surveillance system
- Email spamming and email wars
- Dropping malicious code using methods like Phishing emails etc.
- Use of another individual's identification and/or password
- Placing or offering any kind of commercial or indecent services from individual web pages
- Misbehaving with lab support staff and other IST staff
- Installing personal Wireless Access Points (APs)/Wireless Routers without permission anywhere in the campus will be subjected to appropriate disciplinary action and the devices will be confiscated.
- Manipulating with wireless devices will be subjected to disciplinary action; the actions include moving the antennas direction, relocating APs, or manipulating AP power.

Important:

- LUMS maintains a comprehensive log of all users connected to the LUMS network and the activities performed on workstations in computing labs. These user logs can, and are, referred to when an event of misuse of resources is reported.
- In case of these violations, even first-time offenders are referred to the Disciplinary Committee.
- In case of any query your first point of contact is the lab support staff available on-site. You may also email your concerns to helpdesk@lums.edu.pk.

Contact Information

General Email	helpdesk@lums.edu.pk
Phone	042 3560 8000 Ext:4150 / 4149/ 4140
Hours	Monday to Friday 8:30 am till 10 pm
	Saturday and Sunday 9 am till 6 pm
Head IT Operations	Khubaib Nazir (khubaib@lums.edu.pk)
Director IST	Faisal Kheiri (faisal.kheiri@lums.edu.pk)

GENERAL ADMINISTRATION SERVICES DEPARTMENT (GAS)

The General Administration & Services department is responsible for providing support to all the activities of the university in coordination with other departments. The department is also responsible for the implementation of administrative policies. The following are the areas:

- a. Campus Security.
 - a. Access control system.
 - b. Smartcards and their issuance.
 - c. Protection of community & assets within the premises.
 - d. Implementation of code of conduct.
- b. Engineering Services.
 - a. Repair maintenance of electrical, HVAC and civil related assets.
 - b. Provision of electrical and HVAC support.
- c. Food & Beverages.
 - a. Pepsi dining center.
 - b. Green olive
 - c. Provision of F&B support during events, meetings and conferences.
- d. Facilities.
 - a. Supervisory support of auditoriums/classrooms.
 - b. Pantries and office attendants.
 - c. Female transport services.
 - d. Issuance of car entry stickers.
 - e. Booking venues for events.
 - f. Space allocations.
- e. Support Services.
 - a. Janitorial.
 - b. Horticulture.
 - c. Mail & courier services.
 - d. Masjid.
 - e. Outsource food vendors.
 - f. Transport & travel.

Visitor Policy

1. Purpose of Policy

The purpose of this document is to provide guidelines for visitors, faculty, staff and students.

2. Scope of Policy

The policy shall be applicable to the visitors at all times.

3. Policy

- a. The entry time for visitors is from 8:30 am to 9:30 pm. The visitors related to students and staff shall be allowed to visit the campus within the defined visiting hours only. The visitors shall leave the campus at or before 10:00 pm and no later than that
- b. Drugs and weapons are not permitted on campus.
- c. Visitors will only visit the office/individual that has been registered with the campus security office. If he/she is found in an unauthorized area/office by the security staff, the visitor will be asked to immediately report it to the security office.
- d. Visitor shall be issued a Visitor Pass after endorsement of credentials and confirmation from the LUMS community member who he intends to meet. This pass must remain in the possession of the visitor for identification within the campus and should be returned upon exit.
- e. The visitor cannot visit the classrooms, hostels, or any other unauthorized place.
- f. Hosts should accompany their guest(s) on campus.
- g. The Visitor Pass will be returned to the issuing authority after signing out.
- h. The visitor will park his/her vehicle at the visitor parking only.
- i. Guests are only allowed to visit the eateries.

4. Student Guest

- a. On arrival of guests, students are required to submit their University Smart Card with the security supervisor on duty. The guest's CNIC (original) or authorized legal driving license (original) shall be submitted to the security supervisor at the main gate. Guests who are not in possession of any valid identity will not be able to enter the premises.
- b. Visitors' pass shall be issued to the visitor by the security staff. The Visitor Pass must be worn at all times.
- c. The visitor cannot enter classrooms/labs/hostels/library/Sports Complex/ discussion rooms.
- d. The visitor will not be allowed to stay overnight on campus or after the specified hours, without prior approval from the Dean OSA.
- e. One guest shall be allowed per Smart Card.

5. Alumni Entry and their Guests

- a. Alumni while entering the campus will show her/his original university smart card.
- b. One guest shall be allowed per Smart Card.
- c. Alumni will always accompany the guest.
- d. The guests are required to submit their original CNIC with the security supervisor on duty. Guests who are not in possession of any valid identity will not be able to enter the premises.
- e. A visitor pass shall be issued to the guest and returned to the security office upon exit.
- f. For the entry of the vehicle authorized alumni stickers must be displayed on the wind screen. The respective vehicles will be parked in the visitor parking area without the sticker.

- g. If the alumni are not in possession of her/his Smart Card, she/he will report to the security office for her/his verification through the System.

Car Parking Stickers

Parking stickers will be issued to all active students for their cars, which will be renewed each year during their stay. The vehicles can only be parked at the designated parking lot.

Policy Violations

- Extending access rights by lending the card to someone else or helping other people to gain unauthorized access to facilities (tail gating).
- Tampering with access control hardware and surveillance devices, theft and damage to university property e.g. door, glass, access control hardware, surveillance cameras etc.

Replacement of Smart Card

Smart cards will be replaced and reissued with the amount of PKR 1500.

Lost/stolen smart card

The loss or theft of a smart card must be notified to the campus security office through an email on campus.security@lums.edu.pk or in person.

Penalties and Fines

Violations	Description	Penalty
Door Held Open	Holding the door open physically for a longer duration, in access with the standard allowed time i.e., 7 seconds.	PKR 1000
Door forced open	Using any material/item to block/break or open the door, so the door remains unlocked	PKR 10,000 or above & on second attempt the case is sent to DC
Unauthorized access	Lending your smart card to the unauthorized person/outsider to gain access in your presence/absence	20,000 + DC

Violation/Penalty Code of Conduct

Violation	Penalty		
	1 st violation	2 nd violation	3 rd violation
Possession, sale or consumption of Alcohol or any narcotics / drugs	Suspension	If found guilty, the penalty will be expulsion	Not Applicable
Public Indecency	Written reprimand	If found guilty, the minimum penalty will be suspension, while the maximum penalty will be expulsion, depending on the severity of the violation	
Physical abuse or fighting			
Theft			

Possession of firearms, weapons, explosives, or other dangerous objects	If found guilty, the minimum penalty will be Suspension, while the maximum penalty will be expulsion, depending on the severity of the violation
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Violation	Penalty		
	1 st violation	2 nd violation	3 rd violation
Smoking outside of designated spaces	PKR 5,000 fine and written reprimand	PKR 10,000 fine	Suspension
Illegal Parking/ Speeding	PKR 3,000 fine	PKR 5,000 fine	Loss of car sticker and car entry
Littering	PKR 3,000 fine	PKR 5,000 fine	20 community hours cleaning up litter
Misuse of smart card, unauthorized access or facilitation of unauthorized access	PKR 10,000 fine	Suspension	Suspension
Unauthorized Use or Alteration of Emergency or Safety Equipment (including fire alarms and fire extinguishers) or False Reporting of Emergency			
Members of the opposite gender trespass in hostels	Suspension	Suspension	Suspension
Destruction, Misuse, Damage, Defacing of University or individual's Property; Arson or Vandalism	Fine up to PKR 30,000 and cost of replacement	Suspension	Suspension
Creating excessive noise such as blaring music, or significant nuisances such as large gatherings outside of residences	PKR 3,000 fine	PKR 5,000 fine	Suspension

IN CASE OF ANY EMERGENCY, PLEASE CALL 042-35608877 or email at campus.security@lums.edu.pk
In case of any suggestions or complaints email at helpdesk@lums.edu.pk

USEFUL CONTACTS

Department	Email / Web Address
Centre for Continuing Education Studies	ces@lums.edu.pk
Co-curricular Activities	cca@lums.edu.pk
General Administration Services	campus.security@lums.edu.pk
Gad and Birgit Rausing Library	http://library.lums.edu.pk
Information Systems and Technology	helpdesk@lums.edu.pk
National Outreach Programme	helpdeskno@lums.edu.pk
NOP Student Success Initiative	studentsuccess@lums.edu.pk nop@lums.edu.pk
Office of Academic Advising	advising@lums.edu.pk
Office of Accessibility and Inclusion	aaa@lums.edu.pk
Office of Admissions	helpdeskao@lums.edu.pk
Office of Advancement	communications@lums.edu.pk alumnirelation@lums.edu.pk giving@lums.edu.pk
Office of Finance	helpdeskfinance@lums.edu.pk
Office of Financial Aid	helpdeskofa@lums.edu.pk
Office of International Affairs	https://oia.lums.edu.pk/
Office of Programme Enhancement	ope@lums.edu.pk
Office of the Registrar	https://roservice.lums.edu.pk helpdeskro@lums.edu.pk
Office of Student Affairs	osa@lums.edu.pk
Office of Sports, Wellness & Recreation	swr@lums.edu.pk
On Campus Residence	residence@lums.edu.pk
Student Support Services	osa@lums.edu.pk

SUBJECT AREAS AND COURSE CODE PREFIX TABLE

Subject Area	Code Prefix
ACCT	Accounting
ACF	Accounting and Finance
ANTH	Anthropology
AST	Astronomy
BIO	Biology
CHEM	Chemistry
CHE	Chemical Engineering
CLCA	Comparative Literature and Creative Arts
CMPE	Computer Engineering
CS	Computer Science
DISC	Decision Sciences
ECON	Economics
EDU	Education
EE	Electrical Engineering
ENGL	English
ENV	Environmental Studies
FINN	Finance
GSL	General Studies Law
GSS	Gender and Sexuality Studies
HIST	History
LANG	Language
LAW	Law & Policy
MATH	Mathematics
MECO	Managerial Economics
MGMT	Management
MKTG	Marketing
ORSC	Organizational Sciences
PHIL	Philosophy
PHY	Physics
POL	Political Science
PSY	Psychology
SALT	South Asian Literature
SOC	Sociology
SS	Social Sciences
SWR	Sports, Wellness & Recreation

GLOSSARY

Academic Advisor

A faculty member or a trained advisor assigned to a student, who, through regular meetings, helps the student plan and implement immediate and long-term academic and vocational goals.

Academic Holiday

Day when no classes are held but administrative offices remain open.

Academic Probation

A period or duration of observation/evaluation applicable to a student whose academic performance fall below the LUMS requirement for good academic standing. A student is placed on probation if his/her CGPA falls below 2.0 at the end of any regular semester. Upon not meeting the University defined conditions, a student placed on probation may be separated from the programme.

Academic Programme

A course of study to which a student applies is admitted and graduates.

Academic Warning

A period or duration of observation/evaluation applicable to a student whose academic performance fall below the defined LUMS requirement. A warning letter is issued to students on the following basis:

- If semester GPA in any regular semester falls below 2.00, regardless of CGPA.
- If CGPA is below 2.5.

Academic Year

The Academic year comprises of two regular semesters, the Fall and Spring semesters. Each semester is of 16 weeks, comprising 15 teaching weeks including reading and review period and a final examination week.

Active Student

An undergraduate, graduate or postgraduate student who is pursuing a degree at LUMS whether enrolled or on leave in a particular semester/academic year will be considered as an active student.

Administrative Staff

A "professional, executive, or administrative" staff position that meets the labour laws for executive, administrative, or professional status. Individuals in these positions are not eligible for overtime compensation.

Admission Cancellation

Cancellation of admission of a student at any point in time by the University.

Admission Fee Waiver

A waiver given on admission fee.

Admitted Student

Applicant who has accepted the admission offer after meeting all the stipulated conditions of offer. The candidate who has met the LUMS admission criteria, has accepted the admission offer and the requisite terms and conditions.

Alumni Card

A LUMS identity card given to alumni for access across campus and to avail discount offers at major retail outlets and eateries across Pakistan.

Alumni

Alumni are defined as individuals who have completed requirements for a degree programme at LUMS.

Applicant

A person who applies and successfully submits his/her admission application through the LUMS Online Admission system.

Audit Student

An external or LUMS' student who takes a course without the benefit of a grade, credit or certification.

Bachelor's Degree

An award that normally requires full-time course work of at least four years but not more than six years for all undergraduate programmes except BA-LLB. For a five-year BA-LLB degree, maximum allowed completion time is seven years.

Bona-fide Letter

Bona-fide letter is a certificate which is issued by the University to students, which could include details pertaining to their admitted/graduation year, adherence to discipline, level of study, major field of study, medium of instruction and CGPA/SGPA as required by different officials i.e. recruiters, higher education institutions, funding organizations and for visa purpose etc.

Bona-fide Student

A student who is/was pursuing a degree programme at LUMS and has never been dismissed on disciplinary grounds.

Class Enrolment

The number of students enrolled in a class.

Closure

A closed activity that is not active at this moment.

Conditional Admission Offer

Admission offers made to an applicant where s/he is yet to meet the stipulated conditions for the confirmation of admission.

Consultancy

Consultancy is defined as an activity that a member of LUMS community carries out within or related to his or her professional field through which expertise is exchanged against some consideration with an external organization i.e. client. Work is classified as consultancy when: 1. The project involves purchasing the existing skills, knowledge and expertise of University staff and equipment by a client; and 2. The client expects to own the intellectual property (IP) arising from the paid consultancy and also expects complete confidentiality on the part of the University. Consultancy work normally includes short-term investigations.

Course Audit

A course taken without the benefit of a grade, credit or certification. The purpose is self-enrichment and academic exploration only.

Course Catalogue

A repository which is maintained in Student Information System (Zambeel) to view all courses and related information.

Course Enrolment

Course enrolment is the process of adding/dropping/swapping of courses each semester within the pre-defined enrolment phases using Student Information System (Zambeel).

Course Load

The number of credit hours that each student takes in a regular semester. The University defines the programme and level wise requirements for minimum/ maximum credit hours in a semester.

Course

A unit of teaching that normally lasts one semester, is led by one or more instructors and has a fixed number of students. It is typically described in course catalogue. Courses can contain multiple components such as lecture, recitation, tutorial, lab etc.

Credit Hour

A unit of measuring educational CREDIT, usually based on the number of contact hours per week throughout a semester. "A credit hour means teaching a theory course for 50 minutes each week throughout the semester. One credit hour in laboratory or practical work/project would require lab contact of 03 hours per week throughout the semester".

Credit Transfer

Successfully transferred credits of courses taken by a student at any other university during an exchange/visiting semester.

Credits

Recognition of attendance and performance in an instructional activity (course or programme) that a student is given credit to meet the requirements of a degree.

Cross Listed Courses

A single course which is offered with two or more course codes for the relevant areas. A student may register for the course with only one prefix that is pertinent to his major/minor field of study. The course will count towards the chosen area for the duration of the programme.

Cumulative Grade Point Average (CGPA)

Sum of all grade points divided by total credit hours attempted.

Dean of School

The dean of the school is the academic and administrative head of all departments within a School (i.e. MGSBSS, SBASSE, SAHSOL, SDSB) with the responsibilities of faculty hiring, implementing academic policies & standards, overseeing the budget and other administrative functions.

Dean of Student Affairs

The dean of student affairs is responsible for the student well-being and experience at the university including the extra-curricular activities.

Dean

The Dean of School brings together all aspects of the student experience. He is responsible for overseeing the curriculum, especially the aspects related to general education, as well as all non-curricular components of student life.

Dean's Honour List

The students are placed on the Dean's Honour list upon successful completion of at least 32 credit hours in a year and attaining cumulative GPA of 3.60 or above.

Degree Before Convocation (DBC)

Degree before convocation may be issued prior to graduation to the students who have completed all the degree requirements for their programme and their name has been approved in the faculty plenary.

Degree

An award conferred by LUMS at the time of graduation, as official recognition, for the successful completion of a programme of study.

Department Chair

The department chair is responsible for delivery of effective curriculum, facilities management and related services in an academic department. This person provides a key communication link between the administration and the departmental faculty.

Doctorate (PhD)

A degree that requires advance work beyond the master's level, including the preparation and defence of a dissertation based on original research, or the planning and execution of an original project demonstrating substantial artistic or scholarly achievement.

Double Major

An additional major chosen by a student in the junior/senior year of study, subject to availability of seats and fulfilment of requirements. In order to complete a double major degree a student is required to complete at least 160 credit hours.

Drop a Class/Course

The process of dropping a course/class that a student is enrolled in within the stipulated period.

Dropout

A student who leaves the university prior to completion of degree.

Following conditions apply:

1. Un-authorized withdrawals.
2. University withdrawal.
3. Administrative Withdrawals.

Enroll

The process to register for courses in a semester.

Enrolled Student

An undergraduate, graduate or postgraduate student who is pursuing a degree at LUMS and is enrolled in a particular semester/academic year will be considered as an enrolled student.

Executive Courses

Courses offered for professionals by Rausing Executive Development Centre (REDC) at LUMS.

Extracurricular Activities

Activities undertaken by students that fall outside the realm of the normal curriculum of school or university education.

Faculty Member

Faculty members who are responsible for planning, directing and undertaking academic teaching only, research only or both teaching and research at LUMS. A faculty member can also hold an administrative position as designated by the University. Only adjunct faculty members are counted as part-time faculty members.

This includes: vice-chancellor, Deans, professors, heads of academic departments, associate professors, assistant professors, teaching fellows, research fellows or postdoctoral researchers, adjunct, visiting faculty members who contribute to teaching or research or both at your university for a minimum period of at least three months.

Faculty Workload

“Faculty Workload” refers to all faculty activities that contribute to the accomplishment of School related activities and responsibilities: research/creative activity, teaching and service.

Fee Paying Student

An undergraduate, graduate or postgraduate student who is paying fee (irrespective of fee source) to the University in a particular semester/academic year will be considered as a fee-paying student.

Fee Waiver (Hostel)

A waiver given to a student on hostel fee.

Fee Waiver (Tuition)

A waiver given to a student on tuition fee.

Fee waiver

A fee waiver is a form of financial aid made by LUMS to a student on a need/merit basis.

Fees

The pre-defined charges for educational and other related services by the University.

Final Exam

A final examination is a graded instrument given to students at the end of a course offered in a semester.

Final Separation

A student who has been permanently separated from the programme based on academic performance and is not eligible to apply for readmission.

Financial Aid (Loan)

Financial support from University's side to students for paying LUMS Fee which needs to be returned after graduation.

Financial Aid

Need based monetary support to a student to help pay tuition, fees and other educational expenses. This can include loans, grants, and scholarships.

Financial Awards

Financial award is any grant or scholarship, loan, or paid employment offered to help or encourage a student. Such aid is usually provided by various sources such as federal and state agencies, foundations, corporations, donor organizations or University.

Foreign National Applicant

An applicant who is not a Pakistani citizen and does not hold a Pakistani passport/NICOP/CNIC. Applicants holding dual nationality out of which one is Pakistani are not considered as foreign national.

Free Elective Course

A course which student can freely choose to fulfil overall degree requirements. The requirements for free electives vary across degree programmes.

Freshman (First Year Student)

An undergraduate student in the 1st year of university study. At LUMS, student levels are categorized according to the number of credits earned during their academic career. The level of student remains freshman if the earned credits are within 1 - 30 credit hour range.

FTE-Student (in a semester)

Number of students who have taken full course load of 12 credit hours for undergraduate and 6 credit hours for a graduate level academic programme in a given regular semester. Formula to calculate FTE in Undergraduate Programmes: $(FTE = \text{full-time headcount} + (\text{part-time headcount}/(\text{full credits i.e., } 12/\text{average of credit hours taken by part-time personnel}))$ Formula to calculate FTE Graduate Programmes: $(FTE = \text{full-time headcount} + (\text{part-time headcount}/(\text{full credits i.e., } 06/\text{average of credit hours taken by part-time personnel}))$

Full-time TAs

Full-time TA is a graduate from LUMS or any other HEC recognized University. A full-time TA must have a CGPA equal to or greater than 3.20. S/he can have a maximum workload of 40 hours per week. The contract for full-time Teaching Assistants is for ONE-year (renewed on semester basis) extendable to a maximum duration of TWO years.

Grade

An alphabet that indicates student's work quality and performance evaluation in a course e.g. A+ (Exceptional) and F (Fail) etc.

Grading

The act of classifying something on a scale by quality, rank, size, or progression.

Graduate

Someone who has successfully completed the degree programme requirements and has been awarded a degree.

Graduating Senior

'A student in the final semester, enrolled in courses which confirms that s/he will be completing the required credit hours and graduation requirements for the respective degree programme.

Graduation

The formal process of receiving a degree, often at a graduation ceremony.

Honours and Awards

Honours and awards can be given to student, faculty and staff by LUMS or external party as recognition of an outstanding achievement.

Internal Grants

Sponsored research initiatives supported by LUMS

Internship

The internship is an important practical experience allowing students the opportunity to synthesize their in-class academic learning with the real-world organizational practice. Internship can be a mandatory requirement for the completion of a degree at LUMS.

Interschool transfer

A student who was initially enrolled in another School/Major at LUMS and after following the University defined process is transferred to another School/Major.

IP Rights

Intellectual Property Rights (IPR) of a researcher. IP refers to creation promulgated by the human mind which are considered as a controllable resource and can be utilized to obtain future benefits e.g. patent, copyright, trademark etc.

Joint Major

Joint major provides the richness of two undergraduate pre-defined joint major areas in which degree programmes are offered at LUMS. In order to complete a joint major degree a student is required to complete minimum 130 credit hours.

Junior (3rd Year Student)

An undergraduate student in the third year of study at the University. The students are categorized according to the number of credits earned during their academic career at LUMS.

Lab

An academic period defined in the class schedule devoted to work or study for Laboratory work. (Lab session are usually scheduled to compliment lectures and have some required experimental work. Usually, labs have a percentage of the final grade allocated to them. However, labs are also offered as a separate graded course particularly for SBASSE students).

Leave of Absence

An authorized time out from studies for reasons such as ill health, extenuating circumstances or an exchange programme.

Lecture

An exposition of a given subject delivered before an audience or class, for the purpose of instruction.

Letter of Recommendation

A letter of recommendation is a document in which the writer assesses and provides details of the qualities, characteristics, and capabilities of the person being recommended in terms of that individual's ability to perform a particular task or function.

Loan

A monetary amount paid to a student (with or without interest) which needs to be paid back within the stipulated time frame.

LUMS Smartcard ID

LUMS smartcard is the standard identification for the faculty, staff, students and alumni.

Major Core

Major core curriculum is the set of common courses which are mandatory for a student pursuing a particular major.

Major Elective

The major elective curriculum is the set of common courses which are mandatory for a student pursuing a particular major.

Major

The principal field of study of a student at LUMS.

Merit Scholarship

Merit scholarship is an award of Financial Aid to students who perform exceptionally well and maintain top position in their School as per policy and criteria defined by the University.

Midterm Exam

A midterm exam is a graded instrument near the middle of an academic semester.

Minor

Study/qualify in a subsidiary subject which could be adjacent or distinct from the major stream of study.

National Outreach Programme (NOP)

LUMS Scholarship Programme to provide the talented yet financially challenged youth of Pakistan a chance to study at LUMS on full financial aid.

National Student

A permanent resident of Pakistan whose record is registered with National Database and Registration Authority (NADRA) and does not require a visa to enter Pakistan.

Official Transcript

A transcript printed on special transcript paper with security features, provided in a sealed and stamped envelope.

Open day

A day planned for prospective students to get oriented with the university.

Orientation (O-week)

Orientation is a period of time at the beginning of the academic career at LUMS, during which a variety of planned trainings, events and activities are conducted to orient and welcome new students.

Part-time Programme

The flexibility of completing a programme of study in a longer duration than the regular time specified by the University to complete that particular programme/degree. Applicable only, in case of students who for medical/beyond human control reasons, as verified by the University are unable to undertake full-time load.

Part-time TAs

Part-time TA is a LUMS graduate level active student or a graduate from any other HEC recognized University. The student must have a CGPA equal to or greater than 3.20. S/he can have a maximum workload of 20 hours per week. Part-time (internal) graduate TAs require an active, full-time student status.

Petition

A formal leave request for a missed graded instrument in a course due to extenuating circumstances

PhD Supervisor

A Full-time faculty member, under whom the students are admitted into a PhD programme and is associated with the research area most relevant to the student's interest.

Plagiarism

Plagiarism is the use of the intellectual work of other people, without acknowledgement, and the act or representing the ideas or discoveries of another as one's own in written work submitted for assessment. Plagiarism could lead to strict disciplinary action against the individual.

Portal

Website that can only be accessed by University students and staff and provides a range of personalized tools and information.

Pre-requisites

The requirements that must be met, in order to be eligible to enroll in a course. This may include passed course, registration in a specific programme or plan, specified academic level or academic standing.

Primary Nationality

The first nationality attained by an individual regardless of birthplace.

Prospective student

A candidate who is interested in studying at LUMS.

Quiz

A quiz is a brief assessment used in education and similar fields to measure growth in knowledge, abilities and skills. Quizzes can be taken during any teaching session of a course for students' assessment about the topic being covered in the session and are usually a graded component of the course. Quizzes can be announced/un-announced.

RA-(Research Assistant/Associate)

A research assistant/associate is a researcher employed, often on a temporary contract, by LUMS for the purpose of assisting in academic research. Assistant is usually a junior level position whereas Associate is an experienced researcher.

Recitation

Recitations are conducted to reinforce the concepts delivered in the lecture. Recitations supplement the course material, and are conducted in small groups for individualized engagement by teaching assistant (TA) or instructor.

Registrar's Office (RO)

Registrar Office (RO) is the custodian of LUMS student records and transcripts, degree progress and graduation audit, in addition to serving as a clearinghouse for course enrolment and other related activities e.g. assigning majors and swapping or changing them subsequently, posting of grades etc. RO also serves as the transparent implementer of approved University policies and functions as the secretariat to University Committees.

Research

Research can be defined as an activity involving a creative programme of systematic investigation which:

1. Typically carries on for a considerable period;
2. Involves potential innovation and risk. With research, it is not possible to predict whether a given objective can be achieved;
3. Leads to publicly verifiable outcomes that are open to peer appraisal; and
4. may be initiated by a research proposal and funded by a sponsor.

SCGPA (Specialization Cumulative Grade Point Average)

Sum of all grade points divided by total credit hours attempted in the particular stream/major of study which includes major cores, major electives and relevant free electives.

Semester Withdrawal

Withdrawal of a student from the semester on his/her own will following a formal procedure.

Semester

At LUMS each semester consists of 16 weeks, comprising 15 teaching weeks including reading and review period and a final examination week.

Seminar

A group meeting in which participants and trainer/faculty discuss information on a chosen topic.

Senior (4th Year Student): An undergraduate student in the final year of university study. The students are categorized according to the number of credits earned during their academic career at LUMS

Senior Project

Senior project (Sproj) is a collaborative task that may be taken in the senior year according to the requirements specified for a particular academic programme.

Separation (Low CGPA)

If CGPA of the student remains below 2.0 for two consecutive regular semesters (Fall and Spring), then s/he will be separated from the programme.

SGPA (Semester Grade Point Average)

Sum of all grade points divided by total credit hours attempted in a particular semester.

Sophomore (2nd Year Student)

An undergraduate student in the 2nd year of university study. The students are categorized according to the number of credits earned during their academic career at LUMS.

Student

An individual who is pursuing an undergraduate, graduate or postgraduate degree at LUMS.

Student Loans

Loans from University to help university students pay their living and study costs.

Teaching Assistant (TA)

Teaching Assistant is an active student of graduate level at the University or an externally hired alumnus/graduate. S/he provides teaching support and is responsible to grade, monitor/invigate, lead labs and/or discussion sessions, recitations and tutorials. A TA is required to work during specified office hours in order to provide assistance to the students. His/her work assignments are carried out under the close supervision of course instructor. Exchange, visiting or auditing students are not eligible for this position.

Thesis

A thesis is a document submitted in support of candidature for a graduate/doctoral degree presenting the author's research.

Transcript

The transcript is an inventory of the courses taken, grades obtained, CGPA and credit hours earned by a student throughout his/her academic career.

Transfer Student

A student who was initially enrolled in another accredited institution and after following the University defined process is admitted to LUMS.

Unauthorized Withdrawal

Withdrawal of a student from the University/Semester on his/her own will but without following a formal procedure.

Undergraduate Exchange Student: Inbound

International students who study at LUMS for one/two semesters according to the terms and conditions defined for a bi-lateral exchange programme. The exchange programme must be academic in nature and acknowledged by a formal agreement through LUMS.

Undergraduate Exchange Student: Outbound

LUMS students who go abroad to study for one/two semesters according to the terms and conditions defined for a bi-lateral exchange programme. The exchange programme must be academic in nature and acknowledged by a formal agreement through LUMS. The international exchange programme must be between LUMS and a university, NOT between LUMS and a company OR corporation.

Undergraduate Student

A student pursuing a Bachelor's level or equivalent degree at LUMS. This includes programmes designed to provide intermediate academic and/or professional knowledge, skills and competencies leading to a first tertiary degree or equivalent qualification.

Undergraduate TA

Undergraduate TA is an active undergraduate student at LUMS, who can take a maximum workload of 20 hours per week. The minimum cumulative GPA available in Zambeel must be equal to or greater than 3.2 (Candidates having semester GPA greater than 3.2 and Cumulative GPA less than 3.2 cannot be considered or TA-ship). An Undergraduate TA's responsibility is to provide assistance and mark minor course instruments (e.g. quizzes, MCQs, Lab reports etc.) as assigned by the course instructor and/or TA. However, s/he is not eligible to upload marks in Zambeel and invigilate examinations. S/he can sit through the class upon the discretion of course instructor and nature of the course. An undergraduate TA should not have any Disciplinary Committee decision against him/her for violation of the university rules and regulations. Exchange, visiting or auditing students are not eligible for this position.

University Academic Honours and Awards

University Academic Honours are bestowed as recognition of outstanding academic achievement and to further encourage sound scholarship. They are awarded to every undergraduate student attaining the required proficiency. For some awards, students also receive certificates.

University Core Requirements:

The core curriculum is the set of common courses required to be successfully completed by all undergraduate students irrespective of their allocated major.

University Holiday

Days when Administrative and Academic Offices are closed.

University Withdrawal

Withdrawal of a student from the University on his/her own will following a formal procedure. This could be categorized as withdrawal from programme prior to or after the commencement of classes.

Unofficial Transcript

A transcript with a watermark "unofficial" and without the signature of the Registrar. It is not provided in a sealed and stamped envelope. In case an official transcript is opened, and the seal is broken, then it should also be treated as unofficial.

VC

Vice Chancellor is the chief executive of the university for both academic and administrative affairs.

Visiting Student

A student who takes courses at LUMS after due University defined process on fulfilment of admission requirements.

Year Admitted

The year in which an admitted student joins the degree programme. The students at LUMS joins the degree programme in either of the regular semesters of that particular academic year i.e., Fall OR Spring. Example: The Academic Year 2017-2018 at LUMS comprises two regular semesters, the Fall 2017 & Spring 2018. If a student joins the programme in Fall 2017-2018 or *Spring 2017-2018 (*only in case of transfer students), the academic year of admission will be 2017.

Year Graduated

The year in which a student completes all the degree requirements from LUMS and is eligible to convocate. In order to mark graduation year in Zambeel, the submission of Graduation Audit Form (GAF) and inclusion of name in the faculty plenary for that particular semester is requisite. Example: If a student completes all the degree requirements in Summer 2017, Fall 2017 or Spring 2018, the year of graduation will be marked as 2018 on the regular degree. On the transcript, the year of graduation for the Summer Semester may vary from the degree and will be according to the date when completion has been assigned to the student. Please also refer to definition of "Degree Before Convocation.



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