Master of Science and PhD Programs in Logistics and Supply Chain Management

كلية العلوم والهندسة
College of Science & Engineering
جامعة حمد بن خليفة
HAMAD BIN KHALIFA UNIVERSITY

Master of Science and PhD Programs in Logistics and Supply Chain Management

The Master of Science (MS) and Doctor of Philosophy (PhD) programs in Logistics and Supply Chain Management (LSCM) offer innovative multidisciplinary curricula featuring a unique learning and research experience for students. During the course of their academic studies at CSE's Division of Engineering Management and Decision Sciences, students will acquire critical research capabilities and analytical skills in optimization, data-driven modeling, and simulation to design, evaluate, and optimize complex industrial and supply chain systems.

Currently, there are no graduate academic programs on offer in Qatar and very few in the region focused on the area of logistics and supply chain management, to prepare and train increasingly needed human capital. The programs are specifically aimed at building high-quality academic and entrepreneurial capacities to cope with the aggressive rate of change and expansion of supply chains, in addition to the challenges associated with the scaling of industrial systems. Notably, students will benefit from working with stakeholders from government, industry, and academia.

Program focus
Logistics and Supply Chain Management focuses on the design and optimization of complex systems through data analytics, simulation, digital twins, and optimization methods. Applications include product design, procurement, inventory, production planning, transportation, routing, reverse logistics, and sustainable supply chains across industries such as oil and gas, healthcare, airlines, food systems, retail and e-commerce among many others.

Overall, the programs are designed to be:
▸ Multidisciplinary: Students gain a broad foundation in analytics, operations, and decision support systems, equipping them to make informed decisions and contribute to organizational and national logistics and supply chain strategies.
▸ Conducive to building management and leadership skills: Students will develop the skills necessary to drive the logistics and supply chain management fields in Qatar and beyond.
▸ Research-oriented: Research is an integral part of the programs through which students draw on their knowledge, compile original data, test their hypotheses, and develop a research thesis that helps them advance local and regional insight into logistics and supply chain management.

Curriculum
Master of Science in Logistics and Supply Chain Management
A 33-credit program taught over two years that includes:
▸ Three core courses
▸ Five elective courses
  (six if undertaking an industrial project)
▸ A nine-credit research thesis or a six-credit industrial/applied project
▸ One semester of graduate research seminars

PhD in Logistics and Supply Chain Management
A 60-credit program that requires a master's degree and is typically completed over 3.5 years.
The program includes:
▸ Three core courses
▸ Three elective courses
▸ Two semesters of graduate research seminars
▸ A minimum of 42-credit research thesis, the students are under the supervision of only one main advisor

PhD students should additionally pass:
▸ a qualifying examination in their third semester.
▸ a candidacy examination in their fifth semester.
▸ a final thesis defense to the public and their dissertation committee.

Admission and application requirements
Applicants seeking admission to the College of Science and Engineering graduate programs at HBKU should have a strong academic record (minimum 3.0 GPA out of 4.0) from a recognized university. Applicants to the master's programs should have a bachelor's degree, while applicants to the PhD programs should have a master's degree. They should have also majored in one of the following disciplines: Industrial and Systems Engineering, Computer Science, Information Systems, Mathematics, General Engineering, or other related fields. Students are required to demonstrate strong analytical skills.

Applicants are required to submit an IELTS score of 6.5 or TOEFL score of 79 to demonstrate their proficiency in English. Further details about the language proficiency requirement and the process to seek exemption (where this is an option) are available at admissions.hbku.edu.qa.

Submitting a valid GRE or GMAT test score at the time of application is optional for the PhD in Logistics and Supply Chain Management program. While the GRE is not required for admission to the master's programs at the College of Science and Engineering, a strong GRE score will help strengthen the applicant's admission material. Applicants with prior research experience are preferred, especially for the PhD programs.

Further information about admission requirements is available: admissions.hbku.edu.qa

Application requirements
A completed online application form: admissions.hbku.edu.qa

Academic transcripts
Official electronic copies of transcripts should be submitted as part of the online application. Final transcripts and graduation statements are required for all previous university studies. All transcripts submitted should include an explanation of the grading system. For those who have not completed their current studies, transcripts must include results from the last completed semester of coursework. Transcripts in languages other than English or Arabic must be accompanied by an official translation. Applicants who are admitted to the program based on copies of or incomplete transcripts will be required to provide original transcripts upon enrollment in order to register for courses.

Standardized test results
Official copies (where required) must be sent directly to HBKU. Please refer to the institutional codes below:
- GRE: 7551
- GMAT: H6S
- TOEFL: 4981
- IELTS: No code required. Students should ask the IELTS center where they tested to send the IELTS TRF to Hamad Bin Khalifa University.

Applicants should also submit copies of their test scores with the online application.

Letters of recommendation
Applicants should submit two letters of recommendation, one of which must be from an academic referee. Please visit admissions.hbku.edu.qa for further information about the submission process.

Personal statement of interest
Applicants should submit a personal statement (300-500 words) as part of the online application. The statement should explain why the candidate is applying to the program, and how their studies will contribute to the achievement of their personal objectives, including information about the applicant's research interests and achievements. Personal statements that are incomplete or below the minimum word count will not be accepted.

Resume/Curriculum vitae
Applicants should submit a copy of their current resume or curriculum vitae as part of the online application. This should include the following information:
- Academic qualifications
- Professional experience
- Publications
- Research projects
- Academic awards or honors
- Conference presentations

Identification document
All applicants should submit an electronic copy of their passport as part of the online application. Nationals and residents of Qatar should also submit their valid Qatari ID.

Student funding
The College of Science and Engineering provides opportunities for funding on a competitive basis. Further information will be provided to applicants who are admitted to the program.