

Interdisciplinary Program in Engineering Science

The M.S. in Engineering Science allows students to study areas not covered by traditional engineering or science discipline graduate programs. For those already in the work force, the program provides the opportunity to develop expertise relevant to their work

Master of Science in Engineering Science

This is a very flexible program that permits advanced study from numerous disciplines in engineering and the sciences.

Admission Requirements

Applicants are expected to have an accredited undergraduate degree in science or engineering. Candidates with other appropriate backgrounds may be considered.

- Engineering Science - M.S. (<http://catalog.njit.edu/graduate/newark-college-engineering/interdisciplinary-engineering-science/ms/>)

Interdisciplinary Program in Engineering Science Courses

ESC 701B. Master'S Thesis. 3 credits, 3 contact hours.

ESC 705. Advances in Engineering Education Research. 3 credits, 3 contact hours.

For PhD students in an engineering program. For master's students, approval from Instructor/Course Coordinator (to confirm completion of core courses in the program). This course prepares students to apply theoretical work and research methodologies from the field of education to improve teaching of engineering students. Students will be able to conduct assessment and translate research findings into classroom and instructional methods. Topics include learning theories and conceptual frameworks, research design, qualitative and quantitative data collection and analysis, assessment and accreditation in engineering, student-centered instructional design and development of teaching statements.