



MS IN ENGINEERING SCIENCE

UNIVERSITY OF THE
PACIFIC
School of Engineering
and Computer Science



MSES (Master of Science in Engineering Science) is designed to strengthen students' technical, analytical, and professional breadth and depth.

All students receiving an MSES degree will complete a set of core courses that covers the broader subjects of research and analysis.

The MSES program has two degree options: thesis and non-thesis plans, each requiring a minimum number of 30 units. The thesis plan requires students to perform independent research and culminates in the completion of a thesis based on the findings of the research. The thesis plan is intended for students who plan to pursue a career in research or plan to pursue a PhD. The non-thesis option allows students to complete a project or complete all their units through coursework.

MASTER'S DEGREE CONCENTRATIONS



CIVIL
ENGINEERING



ENGINEERING
MANAGEMENT



MECHANICAL
ENGINEERING



COMPUTER
ENGINEERING

COMPUTER
SCIENCE

ELECTRICAL
ENGINEERING

DEGREE REQUIREMENTS

Complete a minimum of 30 units in one of two plans:

1. THESIS PLAN

Can be completed in less than 2 years

2. NON-THESIS PLAN

Can be completed in as little as 1 year

THE GOAL OF THE MSES PROGRAM IS SIMPLE:

- 1) To advance student professional standing
- 2) To extend the curiosity, intellectual capacities, and knowledge of its students
- 3) To stimulate and support the products of intellectual inquiry

Students interested in eventually pursuing a PhD often build upon this training by engaging in research and completing a thesis. Other students interested in applied technology may prefer to enhance their studies with graduate-level research or by taking additional coursework.

ADMISSION REQUIREMENTS

- + BS in engineering, computer science, or closely-related discipline
- + General subject GRE
- + Minimum GPA of 3.00 (students with exceptional qualities in other areas will be considered)
- + Three letters of recommendation
- + One-page personal statement that includes: reason and objectives for pursuing graduate studies
- + TOEFL (International Students)

FINANCIAL SUPPORT

Students may receive up to nine units of tuition per semester at no cost, plus a monthly stipend through either of the following graduate assistantships:

+ Teaching Assistantships

Students aid faculty with instructing undergraduate courses, laboratory tutorials and other tasks assigned

+ Research Assistantships

From testing waste water in fracturing sites to developing drone technology, our students support faculty research by recording, developing, and executing hands-on experiments.

A young man with glasses and a goatee, wearing a white t-shirt with a graphic, is leaning over a workbench in a laboratory. He is looking at a piece of equipment or a project on the table. The background shows a large, open-plan laboratory with various pieces of equipment and a high ceiling with exposed ductwork.

FIVE-YEAR BLENDED PROGRAM

The MSES program may also be pursued while concurrently enrolled in a Bachelor of Science engineering or computer science program at Pacific (Blended Program). The Blended Program allows students to complete their bachelors and masters degree in as little as five years. The accelerated program provides an excellent opportunity for students to begin their graduate work while they complete their undergraduate degree at the School of Engineering and Computer Science.

Following acceptance into the Blended Program, students can take graduate level courses once they reach senior status. The two degrees are awarded on the same date.

BLENDED PROGRAM ADMISSION CRITERIA

School of Engineering and Computer Science undergraduates who maintain a minimum institutional and major GPA of 3.0, upon reaching senior status, are given priority consideration for admission to the Blended Program and, if admitted, may begin taking graduate level courses concurrent with their undergraduate courses. Students who choose to withdraw from the program prior to completing all the requirements may be awarded the Bachelor of Science degree, contingent upon having completed all program requirements, which includes the co-op experience.

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

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