

# DUAL BACHELOR OF SCIENCE WITH A MAJOR IN MECHANICAL ENGINEERING AND MASTER OF SCIENCE IN THE FIELD OF ELECTRICAL ENGINEERING

The School of Engineering and Applied Science offers a dual bachelor of science with a major in mechanical engineering (<https://bulletin.gwu.edu/engineering-applied-science/mechanical-aerospace-engineering/bs-mechanical-engineering/>) (BS) and master of science in the field of electrical engineering (<https://bulletin.gwu.edu/engineering-applied-science/electrical-computer-engineering/electrical-engineering/>) (MS) degree program. The program allows students to take up to 6 graduate credits as part of their undergraduate program, thereby decreasing the number of credits normally required for the master's degree. All requirements for both degrees must be fulfilled.

Prerequisite: Students in the dual program must take ECE 2110 Circuit Theory as part of the BS in mechanical engineering program. The course counts only toward the undergraduate degree, it is not shared between the BS and MS.

## Credit sharing

Undergraduate students in the dual degree program should consider taking two of the MS courses (for 6 credits total) from the list below during the BS program and counting them as technical electives. The selected courses are shared, i.e., counted toward both the BS and MS degrees. The optimal selection of MS courses taken during the BS program depends on the student's intended area of focus within the graduate degree. Prior to enrolling in shared courses, students must consult with their mechanical engineering academic advisor and with the chair of the department of electrical and computer engineering.

Code	Title	Credits
ECE 6010	Linear Systems Theory	
ECE 6025	Signals and Transforms in Engineering	
MAE 6262	Energy Systems Analysis	
MAE 6263	Energy and Sustainability	
ECE 6699	Energy and Sustainability	