

National Academy of Engineering Grand Challenges Scholars Program Certificate

The National Academy of Engineering Grand Challenges Scholars Program (GCSP) certificate is designed to be complementary, not additive, to a student's traditional academic path. The GCSP certificate provides students with the scholarship network and formal recognition from the National Academy of Engineering, while typically requiring only one course beyond their standard degree program.

The GCSP certificate program is designed to offer students from all majors and all years an introduction to the program through E S 377, an array of university-wide course connections, and mentorship. GC Scholars choose between 18 and 24 hours of approved coursework from a broad range of offerings that align with the five key program components. The five key curriculum components include facing the 21st Century Engineering Grand Challenges with (1) entrepreneurship and (2) service-learning by (3) understanding global dimensions through (4) research and (5) interdisciplinary curriculum. Each Scholar must choose at least one class that emphasizes each one of the components. Scholars will be advised on progress regularly by faculty affiliated with the program, and will present their work at an annual GCSP colloquium.

Total Hours Required: 21 Requirements

Requirements are listed in the table below. Additional requirements may follow the table, so be sure to read the entire page. Some required courses listed below may also satisfy General Education requirements, including Core Curriculum. Students should also review the University's Undergraduate Minor and Certificate Requirements and Policies.

Code	Title	Hours
E S 377.2	21st Century Grand Challenges	3
Hours chosen from: approved courses from GC Scholar Coursework Program Plan		18
Be a student of good standing		
Complete courses, a research project, a community project, a comprehensive reflective report, and a final design, which are evaluated with aligned rubrics.		
College Requirements - Engineering		
Undergraduate Minor and Certificate Requirements and Policies		
Total Hours		21