

Course Name	Faculty Qualifications Needed	Related Disciplines	Acceptable Alternative Qualifications
ENGR 1020 Freshman Engineering Seminar	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 1151 Computer Engineering Graphics and Analysis	Earned Masters or Doctorate degree in Computer Science in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Engineering, Electrical Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2000 Circuits I	Earned Masters or Doctorate degree in Electrical Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Engineering, Computer Engineering, Power Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2001 Circuits I Lab	Earned Masters or Doctorate degree in Electrical Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Engineering, Computer Engineering, Power Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2010 Thermodynamics	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Mechanical Engineering, Chemical Engineering, Aerospace Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2110 Statics	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Mechanical Engineering, Chemical Engineering, Aerospace Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2120 Dynamics	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Mechanical Engineering, Chemical Engineering, Aerospace Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2230 Engineering Computer Programming	Earned Masters or Doctorate degree in Computer Science in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Engineering, Electrical Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.

ENGR 2250 Transport Phenomena	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Chemical Engineering, Mechanical Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 3100 Global Engineering Project Management	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Engineering Management, Mechanical Engineering, Electrical Engineering, Civil Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 3200 Introduction to Design	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 3300 Materials Science	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Chemical Engineering, Mechanical Engineering, Civil Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 3400 Numerical Analysis	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 3520 An Introduction to Network Security	Earned Masters or Doctorate degree in Computer Science in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Cybersecurity Engineering, Electrical Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4110 Special Topics	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4201 Engineering-in-Training	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.

ENGR 4230 Legal Ethical Aspects of Engineering	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4400 Probability and Statistics	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4440 Mobile Robotics	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Electrical Engineering, Mechanical Engineering, Computer Science, Computer Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4500 Capstone Design Project I	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4510 Capstone Design Project II	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4900 Professional Development Seminar	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 4300 Engineering Economics and Risk Analysis	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.
ENGR 2240 Matlab Based Programming for Engineers	Earned Masters or Doctorate degree in Engineering in the teaching discipline; or Masters or Doctorate degree with a concentration in the teaching discipline with at least 18 graduate semester hours in Engineering.	Aerospace Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Manufacturing Engineering, Computer Engineering, Software Engineering	Acceptable alternative qualifications include substantial professional experience (e.g., publications, awards) in engineering, relevant professional licensure/certifications, and notable scholarly work such as published articles or conference presentations in engineering related fields.