

Pre-Engineering

Category and Required Courses	Credits Required
Knowledge of Human Cultures (HC) Student Choice of HC Courses	9
Knowledge of the Natural World (NW) <u>ENGR 220</u> : Statics (3) <u>MATH 225</u> : Calculus I (5) <u>PHYS 240</u> : University Physics I (5)	13
Critical and Creative Thinking (CCT) <u>ENGR 105</u> : Engineering Fundamentals (3) <u>MATH 226</u> : Calculus II (5)	8 (6 required)
Effective Communication (EC) <u>ENGL 150</u> : Advanced Freshman English (3 cr.) or <u>ENGL 202</u> : Sophomore English (3 cr.) Student Choice of additional EC Course (3 cr.)	6
Intercultural Knowledge and Competence (IK) Student Choice of IK Course	3
Individual, Social, and Environmental Responsibility (SER) Student Choice of SER Courses	6
Total General Education Credits	45
Engineering Requirements	16-22
Math and Basic Science (15-20 cr.): <u>CHEM 117</u> : General Chemistry Principles (5) OR <u>CHEM 105</u> (5) and <u>CHEM 106</u> (5): Fundamental Chemistry (10) <u>PHYS 250</u> : University Physics II (5) Engineering Core (3 cr.): <u>ENGR 221</u> : Dynamics (3) Electives - choose one (3-4 cr.): <u>ENGR 107</u> : Engineering Graphics with Computer Aided Drafting (3) <u>ENGR 222</u> : Mechanics of Materials (4) <u>ENGR 263</u> : Engineering Thermodynamics (3) <u>MATH 227</u> : Calculus III (4) (*Required by the UW Platteville PEP program) <u>PHYS 300</u> : Modern Physics (3)	
Total Required Credits to Degree	61-67