

B.S. in Engineering Technology



Engineering
Technology
Accreditation
Commission

The Engineering Technology (Applied Systems Technology Concentration) Program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

Major Program Guide For: B.S. in Engineering Technology - Applied Systems Technology (On-Campus)
Suggested Course Sequence

Freshman Year							
Fall				Spring			
Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Cr Hrs	Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Cr Hrs
ENGR	199	Intro. Engr Prac & Principles I	3	ET	141	Engineering Materials and Processes	3
ENGR	132	Engineering Graphics	3	ENGL	101	Writing and Rhetoric (C1)	3
MATH	146	Precalculus (C2)	4	Wellness (C4)			3
Perspective			3	Perspective			3
Perspective			3	Perspective			3
<i>Semester Total: 16</i>				<i>Semester Total: 15</i>			

Sophomore Year							
Fall				Spring			
Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Cr Hrs	Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Cr Hrs
ENGR	200	Engr Practices & Principles II	3	ET	232	Engineering Statics	3
ENGR	231	3D Solid Modeling	3	MATH	270	Statistical Methods I	3
MATH	153	Calculus I	4	CHEM	139	General Chemistry (C5)	4
PHYS	130	Introductory Physics I (C5)	4	COMM	201	Communications (C3)	3
ENGL	202	Writing & Critical Inquiry (C1)	3	Perspective			3
<i>Semester Total: 17</i>				<i>Semester Total: 16</i>			

Junior Year							
Fall				Spring			
Course Prefix of Liberal Studies Requirement	Course Number	Course Title	Cr Hrs	Course Prefix of Liberal Studies Requirement	Course Number	Course Title	Cr Hrs
ENGR	350	Engr P&P III (or ET 310)	3	ET	310	Advanced 3D Computer Modeling and Rapid Prototyping (or ENGR 350)	3
ECET	301	Electrical Systems	3	ET	351	Engineering Analysis	3
ET	331	Quality Systems	3	ENGR	352	Thermodynamics and Heat Transfer	3
ET	349	Rapid Tooling and Prototyping	3	ET	334	Lean Six Sigma	3
ET	332	Strength of Materials	3	ENGL	402	Technical Writing	3
ET	333	Strength of Materials Laboratory	1				
<i>Semester Total: 16</i>				<i>Semester Total: 15</i>			

Senior Year							
Fall				Spring			
Course Prefix or Liberal Studies Requirement	Course Number	Course Title	Cr Hrs	Course Prefix of Liberal Studies Requirement	Course Number	Course Title	Cr Hrs
ENGR	400	Engineering Capstone I	3	ENGR	450	Engineering Capstone II	3
ET	420	Advanced Engineering Materials	3	ET	425	Metrology and Reverse Engineering	3
ET	436	Engineering Economic Analysis	3	ET	472	Integrated Control Systems	3
ET	441	Power Transmission Systems	3	Upper Level Perspective			3
Technical Elective			3	Technical Elective			3
<i>Semester Total: 15</i>				<i>Semester Total: 15</i>			

NOTES:

- Total for Degree: 125 Credit Hours
- Minimum GPA in major: 2.30
- Students may finish earlier, if they attend summer school at WCU or another approved institution.
- Upper Level Perspective (ULP): An approved Upper Level Liberal Studies Perspectives course is required in one of the Liberal Studies Perspectives categories.