

Integrated Business and Engineering

In collaboration with the College of Engineering and Eller College of Management

Catalog Year 2026-27

Below is the *advised sequence* of courses for this degree program as of May 2026.

Official degree requirements & course prerequisites are found in the University General Catalog; prerequisites are subject to change.

Course Number and Title	Units	Prerequisites/Notes
1st Semester		
IBE 101: Introduction to Integrated Business and Engineering Design	1	
MIS 111: Computers and Internetworked Society	3	
MIS 112: Computers and Internetworked Society Lab	1	
MSE 109: Foundations of Materials Chemistry for Applications or *CHEM 151: Chemical Thinking I	4	Requires MATH 112 or appropriate MATH placement.
WRIT 101/107/109H: First Year Composition	3	Requires appropriate WRIT placement.
MATH 122A&B: First Semester Calculus or MATH125: Calculus I with Application	3 - 5	Requires appropriate MATH placement.
Semester Total		15-17
2nd Semester		
IBE 102: Engineering Design and Business Plan Development	2	Requires IBE 101.
SWFE 101: Introduction to Software Engineering or ECE 101: Programming I or CSC 110: Introduction to Computer Programming I	3 - 4	Requires MATH 112 or MATH appropriate placement.
UNIV 101: Introduction to the General Education Experience	1	
MSE 110: Solid State Chemistry or CHEM 152: Chemical Thinking II	4	MSE 110: Requires CHEM 151 or MSE 109 CHEM 152: Requires CHEM 151.
WRIT 102/108/109H: First Year Composition	3	Requires appropriate WRIT placement.
MATH 129: Calculus II	3	Requires MATH 122B or MATH 125.
Semester Total		16-17
3rd Semester		
ENTR 287: Introduction to Engineering Entrepreneurship	3	
ACCT 250: Information for Business Decisions	3	
**ECON 200: Basic Economics Issues	3	
*PHYS 141: Introductory Mechanics	4	Requires MATH 122B or MATH 125.
Second Language Requirement	4	
Semester Total		17
4th Semester		
IBE 201: Projects in the Community	3	Requires ENTR 287.
CE 214: Statics	3	Requires PHYS 141 and MATH 129.
SIE 265: Engineering Economy	3	Requires MATH 122B or MATH 125.
PHYS 241: Electricity and Magnetism	4	Requires PHYS 141.
Second Language Requirement	4	
Semester Total		17

Course Number and Title	Units	Prerequisites/Notes
5th Semester		
IBE 300A: Junior Seminar I	1	Requires IBE 201.
BNAD 303: Global and Financial Economics and Strategies	3	Requires ECON 200.
SIE 305: Engineering Probability and Statistics	3	Requires MATH 129.
AME 230: Thermodynamics	3	Requires PHYS 141.
***CE 301: Technical Communications	3	
One of Remaining General Education Courses	3	Choose one of unfulfilled: Exploring Perspectives (Artist); Exploring Perspectives (Humanist); GE Civics; or GE Building Connections (#2 of 2).
Semester Total	16	
6th Semester		
IBE 300B: Junior Seminar II	2	Requires IBE 300A.
BNAD 301 or BNAD 304	3	
SIE 457: Project Management	3	
ECE 207: Elements of Electrical Engineering	3	Requires PHYS 141.
One of Remaining General Education Courses	3	Choose one of unfulfilled: Exploring Perspectives (Artist); Exploring Perspectives (Humanist); GE Civics; or GE Building Connections (#2 of 2).
Semester Total	14	
7th Semester		
IBE 498A: Innovation and New Venture Development Capstone I	3	Requires IBE 300B.
FIN 480: Finance for New Ventures	3	
MKTG 480: Marketing Research for Entrepreneurs	3	
UNIV 301: General Education Portfolio	1	
One of Remaining General Education Courses	3	Choose one of unfulfilled: Exploring Perspectives (Artist); Exploring Perspectives (Humanist); GE Civics; or GE Building Connections (#2 of 2).
Semester Total	13	
8th Semester		
IBE 498B: Innovation and New Venture Development Capstone II	3	Requires IBE 498A.
BNAD 302: Human Side of Organizations	3	
SIE 414: Law for Engineers and Scientists	3	
One of Remaining General Education Courses	3	Choose one of unfulfilled: Exploring Perspectives (Artist); Exploring Perspectives (Humanist); GE Civics; or GE Building Connections (#2 of 2).
Semester Total	12	

Current Total Units (Minimum) = 120

*CHEM 151 or PHYS 141 will fulfill General Education: Exploring Perspectives (Natural Scientist)

**ECON 200 will fulfill General Education: Exploring Perspectives (Social Scientist)

***CE 301 (UWGEC Approved) will fulfill a GE Building Connections requirement (#1 of 2)