

Integrative Studies: ENGINEERING Field

The following are advanced course options for Integrative Studies majors. You are always responsible to meet a course prerequisite. **These may not be your only options.** Please check course offerings every semester for additional courses.

Biomedical Engineering

Course #	Course Name	Pre-Requisites – Grade of C or better
BMEN 1300	Discover Biomedical Engineering	None
BMEN 1400	Software for Biomedical Engineering (4 hours)	MATH 1650

Construction Engineering Technology

Course #	Course Name	Pre-Requisites – Grade of C or better
CNET 1160	Construction Methods and Materials	None
CNET 2180	Construction Methods and Surveying	CNET 1160
CNET 2200	Surveying for Construction	None – new course in a future semester
CNET 2300	Architectural Drawing	None
CNET 3150	Construction Contract Documents	CNET 2180
CNET 3160	Construction Cost Estimating	CNET 2180
CNET 3410	Occupational Safety and Liability	None

Computer Sciences

Course #	Course Name Computer Sciences	Pre-Requisites – Grade of C or better
CSCE 1010	Discovering Computer Science	None
CSCE 1030	Computer Science I (4 hours)	MATH 1650
CSCE 1040	Computer Science II	CSCE 1030. Corequisite: Math 1710
CSCE 2100	Computing Foundations I	CSCE 1040
CSCE 2110	Computer Foundations II	CSCE 1040.
CSCE 3055	IT Project Management	CSCE 2100
CSCE 3600	Systems Programming	CSCE 2100
CSCE 3615	Enterprise Systems Architecture and Design	CSCE 2100

Electrical Engineering

Course #	Course Name	Pre-Requisites– Grade of C or better
EENG 1910	Introduction to Electrical Engineering	None
EENG 2710	Digital Logic Design	None
ELET 3980	Digital Controls of Industrial Processes	None

Mechanical & Manufacturing

Course #	Course Name	Pre-Requisites – Grade of C or better
ENGR 1030	Technological Systems	None
ENGR 1304	Engineering Graphics	None
MEEN 1000	Discover Mechanical and Energy Engineering	MATH 1650
MFET 3110	Machining Principles and Processes	MATH 1650
MFET 4210	CAD/CAM System Operations	ENGR 1304, MFET 3110

Materials Science & Engineering

Course #	Course Name	Pre-Requisites – Grade of C or better
MTSE 1100	Discover How and What Materials Matter	None
MTSE 3000	Fundamentals of Materials Science I	CHEM 1410/1430
MTSE 3001	Fundamentals of Materials Science II	MTSE 3000