

EE Program Electives Policy

The Electrical Engineering program includes four elective courses in the curriculum, with three different classifications: **ECBE/DSAC Elective**, **Technical Elective**, and **Free Elective**. In order to count towards the EE program elective credits, a course must not be otherwise required in the EE program. The additional guidelines for each elective type are defined below:

ECBE/DSAC Elective: Any 4000 level ECBE or DSAC elective course from the list of approved program electives maintained by the EE program. A minimum of 6 **ECBE/DSAC Elective** credits are required in the EE program and must be taken at MSOE unless approved by the EE Program Director.

Technical Elective: A 2000 level or higher MSOE course in an engineering discipline, computer science, physics, or mathematics. Any technical elective transfer credit must be approved by the EE Program Director. A minimum of 3 **Technical Elective** credits are required by the EE program.

Free Elective: A course from the approved Free Elective list that is offered at or transferred in for a cataloged course at MSOE that does not overlap with coursework required by the EE program. Courses that do not transfer in for a cataloged MSOE course may be counted as free elective credit with EE program director approval. A minimum of 3 **Free Elective** credits are required by the EE program.

Clarification on Course Credits:

The elective requirements are stated in terms of minimum semester credits, not a fixed number of courses. As long as the minimum total number of credits are met for a given elective classification, one or more courses of any credit value can be used toward satisfying the elective requirements. For example: three 1-credit courses can be used to achieve the 3 semester credits required for the EE Free Elective.

The following list of allowed electives are courses that have been reviewed by the EE program. Other courses may be allowed based on EE Program Director approval.

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
BME 4210 – Medical Imaging Systems	X	X	X
BME 4410 - Advanced Biomechanics	X	X	X
BME 4710 - Biomedical Instrumentation II	X	X	X
BME 4910 - Lasers: Medical Applications	X	X	X
BME 4980 - Topics in Biomedical Engineering*	X	X	X
BME 4981 - Topics in Biomedical Engineering with Lab*	X	X	X
BME 4999 - Biomedical Engineering Independent Study*	X	X	X
CPE 4510 - Superscalar, Multicore, and Multiprocessor Architecture	X	X	X
CPE 4520 - Memory System and I/O System Architecture	X	X	X
CPE 4610 - Embedded Systems Fabrication	X	X	X
CPE 4700 – Embedded Control Systems	X	X	X
CPE 4800 - Information Security	X	X	X
CPE 4980 - Topics in Computer Engineering*	X	X	X
CPE 4981 - Topics in Computer Engineering with Lab*	X	X	X
CPE 4999 - Computer Engineering Independent Study*	X	X	X
CSC 4201 - Microservices and Cloud Computing	X	X	X
CSC 4241 - GPU Programming	X	X	X
CSC 4243 - Compiler Construction	X	X	X
CSC 4341 - Competitive Programming	X	X	X
CSC 4601 - Theory of Machine Learning	X	X	X
CSC 4611 - Introduction to Deep Learning	X	X	X
CSC 4631 - Artificial Intelligence	X	X	X
CSC 4641 - Natural Language Processing	X	X	X
CSC 4651 - Deep Learning in Signal Processing	X	X	X
CSC 4661 – Reinforcement Learning	X	X	X
CSC 4801 - Data Science Practicum	X	X	X
CSC 4911 - Mobile Application Development	X	X	X
CSC 4941 - Robotics	X	X	X
CSC 4980 - Topics in Computer Science*	X	X	X
CSC 4981 - Topics in Computer Science with Lab*	X	X	X
CSC 4999 - Computer Science Independent Study*	X	X	X
ECB 4200 - Engineering Applications of MATLAB	X	X	X
ELE 4142 - Modern Electronic Systems	X	X	X
ELE 4240 - Advanced Electromagnetics and Antenna Theory	X	X	X
ELE 4300 - Principles of Communications	X	X	X
ELE 4320 - Applications of DSP	X	X	X
ELE 4403 - Specialty Electric Machines	X	X	X
ELE 4440 - Power Electronics	X	X	X
ELE 4447 - Power System Models and Analysis	X	X	X
ELE 4451 - Grid Stability	X	X	X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
ELE 4480 - Electrical Power Systems Quality	X	X	X
ELE 4610 - Advanced Programming for EEs	X	X	X
ELE 4630 - Advanced Embedded Systems	X	X	X
ELE 4701 - Control Systems Applications	X	X	X
ELE 4980 - Topics in Electrical Engineering	X	X	X
ELE 4981 - Topics in Electrical Engineering with Laboratory	X	X	X
ELE 4999 - Electrical Engineering Independent Study	X	X	X
SWE 4211 - Real-time Systems	X	X	X
SWE 4411 - Game Development	X	X	X
SWE 4511 - DevSecOps	X	X	X
SWE 4540 - Network Security Tools and Practices	X	X	X
SWE 4980 - Topics in Software Engineering*	X	X	X
SWE 4981 - Topics in Software Engineering with Lab*	X	X	X
SWE 4999 - Software Engineering Independent Study*	X	X	X
UGR 4970 ¹ - Undergraduate Research Experience*	X	X	X
UGR 4971 ¹ - Undergraduate Research Thesis I*	X	X	X
UGR 4972 ¹ - Undergraduate Research Thesis II*	X	X	X
ACS 2740 - Risk Management and Insurance		X	X
ACS 3410 - Linear Regression and Time Series		X	X
ACS 3420 - Linear Models and Predictive Analytics		X	X
ACS 3530 - Fundamentals of Actuarial Mathematics I		X	X
ACS 3540 - Fundamentals of Actuarial Mathematics II		X	X
ACS 3740 - Introduction to Asset Pricing		X	X
ACS 4410 - Advanced Predictive Analytics		X	X
ACS 4530 - Actuarial Life Contingency Models		X	X
ACS 4630 - Actuarial Probability Models I		X	X
ACS 4640 - Actuarial Probability Models II		X	X
ACS 4740 - Quantitative Risk Management		X	X
ARE 2851 - Architectural Graphics		X	X
ARE 2852 - Building Information Modeling		X	X
ARE 3101 - Principles of Electrical Engineering for Buildings		X	X
ARE 3121 - Design of Communication and Life Safety Systems		X	X
ARE 3151 - Design of Lighting Systems		X	X
ARE 3161 - Design of Power Systems		X	X
ARE 3401 - Principles of Mechanical Engineering for Buildings		X	X
ARE 3441 - Design of Fire Protection and Life Safety Systems		X	X
ARE 3451 - Design of Mechanical Systems		X	X

¹ A maximum of 6 credits total of UGR coursework may be used to satisfy the 12 required EE Program Elective credits.

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
ARE 3461 - Design of Plumbing Systems		X	X
ARE 3821 - Architectural History		X	X
ARE 4321 - Soil Mechanics and Foundations		X	X
CBE 2100 - Principles and Applications of Biotechnology		X	X
CBE 2410 - Thermodynamics I		X	X
CBE 2510 - Transport Phenomena I		X	X
CBE 3100 - Cell Culture and Tissue Engineering		X	X
CBE 3200 - Biopolymer and Nanomaterial Engineering		X	X
CBE 3300 - Bioinformatics		X	X
CBE 3400 - Kinetics and Bioreactor Design		X	X
CBE 3420 - Thermodynamics II		X	X
CBE 3500 - Unit Operations		X	X
CBE 3520 - Transport Phenomena II		X	X
CBE 4100 - Synthetic Biology and Metabolic Engineering		X	X
CBE 4200 - Engineering Controlled Drug Delivery and Nanomedicine		X	X
CBE 4500 - Process Engineering Lab		X	X
CBE 4600 - Bio Process Control		X	X
BME 2961 - Introduction to Human Body Systems for Radiological Applications		X	X
BME 2963 - Fundamentals of Medical Imaging and Imaging AI		X	X
BME 3010 - Medical Device Regulation and Standards		X	X
BME 3210 - Medical Imaging Systems		X	X
BME 3410 - Biomechanics		X	X
BME 3510 - Biotransport Phenomena		X	X
BME 3610 - Biomaterials		X	X
BME 4210 – Medical Imaging Systems		X	X
BME 4410 - Advanced Biomechanics		X	X
CAE 2411 - Thermal Sciences		X	X
CAE 2511 - Statics		X	X
CAE 2512 - Mechanics of Materials		X	X
CAE 2711 - Fluid Mechanics		X	X
CAE 3501 - Principles of Structural Engineering		X	X
CAE 3511 - Analysis of Structures		X	X
CAE 3521 - Design of Reinforced Concrete Structures		X	X
CAE 3561 - Design of Steel Structures		X	X
CAE 3861 - Specifications and the Project Manual		X	X
CAE 3891 - Introduction to Disaster Relief and Global Sustainable Development		X	X
CAE 4811 - Real Estate Development Economics		X	X
CAE 4861 - Construction Law and Contracts		X	X
CAE 4881 - Sustainability and Resilience		X	X
CPE 3300 - Computer Networking		X	X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
CSC 2611 - AI Tools		X	X
CSC 2621 - Introduction to Data Science		X	X
CSC 2661 - Python for AI		X	X
CSC 2663 - Machine Learning Techniques		X	X
CSC 2980 - Topics in Computer Science*		X	X
CSC 2981 - Topics in Computer Science with Lab*		X	X
CSC 3210 - Operating Systems		X	X
CSC 3310 - Algorithms and Advanced Data Structures		X	X
CSC 3320 - Databases		X	X
CSC 3511 - Security and Networking		X	X
CVE 2851 - Introduction to Civil 3D		X	X
CVE 2852 - Introduction to Geographic Information Systems (GIS)		X	X
CVE 3201 - Principles of Environmental Engineering		X	X
CVE 3251 - Design of Municipal Potable Water and Wastewater Treatment Plants		X	X
CVE 3301 - Principles of Soils and Geotechnical Engineering		X	X
CVE 3601 - Principles of Transportation Engineering		X	X
CVE 3611 - Traffic Engineering		X	X
CVE 3661 - Geometric Design of Roadways		X	X
CVE 3701 - Principles of Water Resources Engineering		X	X
CVE 3721 - Analysis and Design of Potable Water Distribution Systems and Wastewater Collection Systems		X	X
CVE 3741 - Design of Stormwater Management Systems		X	X
CVE 3811 - Principles of Site Development		X	X
IDS 3901 - Interdisciplinary Design		X	X
IND 2030 - Applied Statistics for Industrial Engineers		X	X
IND 2700 - Engineering Economics		X	X
IND 3210 - Automation Technologies		X	X
IND 3400 - Quality Systems		X	X
IND 3410 - Design of Experiments and Data Analysis for Engineers		X	X
IND 3510 - Fundamentals of Enterprise Operations for Engineers		X	X
IND 3600 - Ergonomics and Work Methods		X	X
IND 3700 - Project Management for Systems Change		X	X
IND 3810 - Process Modelling and Optimization		X	X
IND 4110 - Research Methods		X	X
IND 4120 - Healthcare Systems Engineering		X	X
IND 4210 - Computer-Aided Manufacturing/CNC Machining/Additive Manufacturing		X	X
IND 4310 - Production Planning and Inventory Control		X	X
IND 4320 - Facilities Design		X	X
IND 4330 - Modern Manufacturing Processes		X	X
IND 4410 - Six Sigma for Engineers		X	X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
IND 4430 - Lean Manufacturing Enterprise for Engineers		X	X
IND 4610 - Safety Systems Engineering		X	X
IND 4621 - Sociotechnical Systems Engineering		X	X
IND 4622 - Organization and Job Design		X	X
IND 4630 - Product Design and Development Processes		X	X
IND 4710 - Financial Engineering		X	X
IND 4720 - Supply Chain Engineering		X	X
IND 4830 - Process Simulation		X	X
IND 4840 - Advanced Simulation		X	X
IDS 3901 – Interdisciplinary Design		X	X
MEC 2010 - Engineering Mechanics I: Statics		X	X
MEC 2020 - Engineering Mechanics II: Dynamics		X	X
MEC 2030 - Mechanics of Materials		X	X
MEC 2110 - Thermodynamics I		X	X
MEC 2501 - Statics and Mechanics of Materials		X	X
MEC 3040 - Computer-Aided Design of Machines		X	X
MEC 3060 - Design of Machine Components		X	X
MEC 3120 - Fluid Mechanics		X	X
MEC 3130 - Heat Transfer		X	X
MEC 3140 - Thermodynamics II		X	X
MEC 3210 - Material Science		X	X
MEC 3220 - Materials and Manufacturing Processes		X	X
MEC 3320 - Dynamic Systems		X	X
MEC 4060 - Finite Element Analysis		X	X
MEC 4160 - Computational Fluid Dynamics		X	X
MEC 4270 - Fatigue and Fracture in Mechanical Design		X	X
MEC 4350 - Mechanical System Simulation		X	X
MEC 4470 - Introduction to Robotics		X	X
MEC 4670 - Experimental Stress Analysis		X	X
MEC 4671 - Vibration Control		X	X
MEC 4672 - Applications in Finite Element Modeling		X	X
MEC 4673 - Advanced Machine Design		X	X
MEC 4674 - Medical Applications in Mechanical Engineering		X	X
MEC 4675 - Vehicle Dynamics		X	X
MEC 4676 - Composite Materials		X	X
MEC 4677 - Applied Numerical Methods		X	X
MEC 4678 - Data and Mechanical Engineering		X	X
MEC 4770 - Fluid Power Systems		X	X
MEC 4810 - Thermo-Fluid Systems Lab		X	X
MEC 4870 - HVAC Systems Design		X	X

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MEC 4871 - Aerodynamics		X	X
MEC 4872 - Compressible Flow		X	X
MEC 4873 - Gas Turbines and Aircraft Engines		X	X
MEC 4874 - Renewable and Sustainable Energy Systems		X	X
MEC 4875 - Internal Combustion Engines		X	X
MTH 2310 - Discrete Mathematics		X	X
MTH 2340 - Linear Algebra with Applications		X	X
MTH 3340 - Abstract Algebra with Applications		X	X
MTH 3410 - Applied Regression Analysis		X	X
MTH 3999 - Mathematics Independent Study*		X	X
MTH 4130 - Complex Analysis		X	X
MTH 4150 - Partial Differential Equations		X	X
MTH 4980 - Topics in Mathematics*		X	X
MTH 4999 - Mathematics Independent Study*		X	X
PHY 2600 - Introduction to Optics and Photonics		X	X
PHY 3530 - Quantum and Modern Physics		X	X
PHY 3550 - Nuclear Physics		X	X
PHY 3600 - Lasers and Applications		X	X
PHY 3810 - Introduction to Biophysics		X	X
PHY 3910 - Astronomy and Astrophysics		X	X
PHY 4980 - Topics in Physics*		X	X
PHY 4999 - Physics Independent Study*		X	X
SWE 2410 - Design and Cloud Patterns		X	X
SWE 2511 - Web Applications		X	X
SWE 2710 - Software Tools and Process		X	X
SWE 2721 - Introduction to Software Verification		X	X
SWE 3411 - Software Requirements and Architecture		X	X
SWE 3710 - Software Development Laboratory I		X	X
SWE 3720 - Software Development Laboratory II		X	X
UXD 2010 - Inclusive Design		X	X
UXD 2020 - Interaction Design		X	X
UXD 2030 - Designing for Extended Reality		X	X
UXD 2040 - People + Automation		X	X
UXD 2050 - UX Writing		X	X
UXD 2961 - Human-centered AI		X	X
UXD 2963 - Intelligent User Interfaces		X	X
UXD 2999 - User Experience Independent Study*		X	X
UXD 3010 - UX Research		X	X
UXD 3020 - Design for Chat and Voice		X	X
UXD 3030 - Data Visualization		X	X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
UXD 3040 - Agile Project Management		X	X
UXD 3050 - Search Engine Optimization		X	X
UXD 3060 - Professional Portfolio		X	X
UXD 4020 - UX of Physical Products		X	X
UXD 4030 - UX Strategy		X	X
UXD 4040 - UX in Transportation		X	X
UXD 4060 - UX in Healthcare		X	X
UXD 4980 - Topics in User Experience*		X	X
UXD 4999 - User Experience Independent Study*		X	X
AHT 2001 - Western Art History			X
AHT 2002 - German Art History			X
AHT 2980 - Topics in Art History*			X
AHT 3980 - Topics in Art History*			X
AHT 3999 - Art History Independent Study*			X
AHT 4980 - Topics in Art History*			X
ANT 2999 - Anthropology Independent Study			X
ANT 2020 - Native American Culture			X
ANT 3980 - Topics in Anthropology*			X
ANT 4980 - Topics in Anthropology*			X
ANT 4999 - Anthropology Independent Study*			X
ARE 2851 - Architectural Graphics			X
ARE 2852 - Building Information Modeling			X
BIO 1110 - Cell Biology and Genetics			X
BIO 1410 - Human Anatomy & Physiology I			X
BIO 1420 - Human Anatomy & Physiology II			X
BIO 2310 - Clinical Microbiology			X
BIO 2320 - Cellular Microbiology			X
BIO 2510 - Human Physiology I			X
BIO 2520 - Human Physiology II			X
BIO 4980 - Topics in Biology*			X
BUS 1850 - Information and Operations Technology			X
BUS 2010 - Business Analysis and Data Storytelling			X
BUS 2100 - Organizational Management			X
BUS 2221 - Microeconomics			X
BUS 2222 - Macroeconomics			X
BUS 2225 - Health Care Economics			X
BUS 2330 - Business Law			X
BUS 2411 - Building Inclusive Teams			X
BUS 2445 - Global Business			X
BUS 2450 - Business Operations			X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
BUS 2510 - Principles of Financial Accounting			X
BUS 2530 - Introduction to Finance			X
BUS 2660 - Marketing			X
BUS 2710 - Database Management			X
BUS 2900 - Character in the Business Professions			X
BUS 3010 - Business Analytics			X
BUS 3200 - Principles of Economics and Financial Decision-Making			X
BUS 3400 - Project Management			X
BUS 3420 - Innovation and Entrepreneurship			X
BUS 3445 - Leadership Communication			X
BUS 3560 - Managerial Cost Accounting			X
BUS 3580 - Intermediate Accounting I			X
BUS 3585 - Intermediate Accounting II			X
BUS 3593 - Intermediate Finance and Portfolio Theory			X
BUS 3600 - Advanced Financial Analysis			X
BUS 3650 - Branding and Brand Management			X
BUS 3670 - Marketing Research			X
BUS 3740 - Emerging Technology			X
BUS 3790 - Web Design I			X
BUS 3795 - Web Design II			X
BUS 3800 - Continuous Improvement			X
BUS 3805 - Lean-Six Sigma Techniques			X
BUS 3820 - Planning, Scheduling, and Control			X
BUS 3850 - Topics in Artificial Intelligence*			X
BUS 3890 - Supply Chain Management			X
BUS 4310 - Legal Aspects of Innovation and Entrepreneurship			X
BUS 4320 - Business Startups for Entrepreneurs			X
BUS 4340 - Cultivating Your Entrepreneurial Mindset			X
BUS 4490 - Human Resources			X
BUS 4500 - Management Control Systems and Advanced Managerial Accounting			X
BUS 4510 - Tax Planning and Research			X
BUS 4530 - Personal Financial Planning			X
BUS 4550 - Auditing and Advanced Accounting			X
BUS 4560 - Accounting Ethics			X
BUS 4570 - Accounting Information Systems			X
BUS 4575 - Accounting Analytics and Artificial Intelligence			X
BUS 4620 - Technical Selling			X
BUS 4630 - Sales Process and Pipeline			X
BUS 4640 - Sales Networking and Prospecting			X
BUS 4660 - Digital Marketing			X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
BUS 4680 - Advertising and Promotion Strategies			X
BUS 4690 - Consumer Behavior			X
BUS 4820 - Enterprise Resource Planning			X
BUS 4900 - Forecasting and Strategy			X
CAE 1851 - Introduction to CAECM Graphics			X
CAE 1871 - Materials and Methods			X
CAE 1872 - Materials and Methods Laboratory			X
CHM 1020 - Chemistry II			X
CHM 2210 - Organic Chemistry I			X
CHM 2220 - Organic Chemistry II			X
CHM 2225 - Organic Chemistry II Laboratory			X
CHM 2310 - Biochemistry			X
CHM 3510 - Advanced Analytical Chemistry			X
CHM 3650 - Environmental Chemistry			X
CHM 3710 - Polymer Chemistry			X
CHM 3850 - Food Chemistry			X
COM 2980 - Topics in Communication*			X
COM 2999 - Communication Independent Study*			X
COM 3980 - Topics in Communication*			X
COM 3999 - Communication Independent Study*			X
COM 4980 - Topics in Communication*			X
COM 4999 - Communication Independent Study*			X
CON 2001 - Introduction to Construction Management			X
CON 2011 - Surveying			X
CON 2071 - Construction Safety			X
CON 3001 - Principles of Construction Project Management			X
CON 3011 - Building Mechanical and Electrical Systems for CM			X
CON 3021 - Construction Estimating			X
CON 3061 - Construction Scheduling			X
CON 3071 - Construction Jobsite and Equipment Management			X
CON 4021 - Construction Finance and Accounting			X
CON 4051 - Construction Project Management II			X
CPE 1510 - Computer Architecture and Assembly Language			X
CSC 1110 - Software Development			X
CSC 1120 - Data Structures and Graphical Interfaces			X
CSC 1310 - Introduction to Programming with Python			X
FNA 2002 - Drama and The Theater			X
FNA 2980 - Topics in Fine Arts*			X
FNA 2999 - Fine Arts Independent Study*			X
FNA 3001 - Creative Writing			X

Electives allowed in the EE Curriculum	ECBE/DSAC	Tech	Free
<i>Courses marked with the superscript * require EE Program Director Approval</i>			
FNA 3980 - Topics in Fine Arts*			X
FNA 3999 - Fine Arts Independent Study*			X
FNA 4010 - Film and Media Studies			X
FNA 4980 - Topics in Fine Arts*			X
FNA 4999 - Fine Arts Independent Study*			X
GER 1001 - Elementary German			X
GER 2001 - Intermediate German			X
GER 2999 - German Independent Study*			X
GER 3001 - Advanced German			X
GER 3980 - Topics in the German-Speaking World*			X
GER 3999 - German Independent Study*			X
GER 4980 - Topics in the German-Speaking World*			X
GER 4999 - German Independent Study*			X
HST 1013 - United States History I			X
HST 1014 - United States History II			X
HST 1015 - Latin American History I			X
HST 1016 - Latin American History II			X
HST 2011 - American Revolution			X
HST 2012 - Civil War and Reconstruction			X
HST 2014 - History of US World's Fairs			X
HST 2015 - Topics in Twentieth Century American History*			X
HST 2021 - Topics in Modern European History*			X
HST 2022 - German History			X
HST 2031 - World War II			X
HST 2041 - Cuban History			X
HST 2053 - Music History			X
HST 2980 - Topics in History*			X
HST 2999 - History Independent Study*			X
HST 3980 - Topics in History*			X
HST 3999 - History Independent Study*			X
HST 4980 - Topics in History*			X
HST 4999 - History Independent Study*			X
HUM 0101 - Communicate Effectively			X
HUM 0102 - Collaborate Successfully			X
HUM 0103 - Demonstrate Ethical Understanding			X
HUM 0104 - Embrace Diversity			X
HUM 0105 - Think Critically			X
HUM 0106 - Exhibit Curiosity			X
HUM 1001 - THL Humanities I			X
HUM 2001 - THL Humanities II			X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
LIT 1010 - American Literature I			X
LIT 1020 - American Literature II			X
LIT 2001 - Science Fiction			X
LIT 2010 - Literary Genres			X
LIT 2020 - Contemporary Literature			X
LIT 2980 - Topics in Literature*			X
LIT 2999 - Literature Independent Study*			X
LIT 3001 - Topics in Global Literature*			X
LIT 3980 - Topics in Literature*			X
LIT 3999 - Literature Independent Study*			X
LIT 4980 - Topics in Literature*			X
LIT 4999 - Literature Independent Study*			X
MEC 1602 - Introduction to Solid Modeling and Design			X
MUS 0600 - Jazz Combo			X
MUS 0700 - Electronic Orchestra (for credit)			X
MUS 1100 - University Orchestra (for credit)			X
MUS 1200 - Jazz Ensemble (for credit)			X
MUS 1300 - Concert Band (for credit)			X
MUS 1400 - Concert Choir (for credit)			X
MUS 1500 - Pep Band (for credit)			X
MUS 4980 - Topics in Music			X
NUR 2000 - Nutrition in Health and Illness Across the Life Span			X
NUR 2001 - Pathophysiology and Pharmacology I			X
NUR 2002 - Pathophysiology and Pharmacology II			X
NUR 2003 - Pathophysiology (ASD)			X
NUR 2004 - Pharmacology (ASD)			X
NUR 2010 - Health Assessment			X
NUR 2015 - Health Assessment and Foundations of Safe, Person-Centered Nursing Care (ASD)			X
NUR 2020 - Foundations of Safe, Person-Centered Nursing Care			X
NUR 2500 - Global Health Care and International Health Care Systems			X
NUR 3000 - Transcultural and Family Dynamics in Healthcare (PBEL)			X
NUR 3001 - Transcultural Dynamics in Healthcare (PBEL) (ASD)			X
NUR 3005 - Nursing Care of Older Adults			X
NUR 3006 - Gerontological Management of Care			X
NUR 3010 - Episodic Health Challenges			X
NUR 3011 - Acquisition of Psychomotor Skills and Integration of Clinical Reasoning I			X
NUR 3015 - Episodic and Restorative Health Care (ASD)			X
NUR 3016 - Acquisition of Psychomotor Skills and Integration of Clinical Reasoning (ASD)			X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
NUR 3020 - Chronic Health Challenges			X
NUR 3021 - Acquisition of Psychomotor Skills and Integration of Clinical Reasoning II			X
NUR 3030 - Population Health (PBEL)			X
NUR 3100 - Principles of Electrocardiograph (ECG) Interpretation and Monitoring			X
NUR 3320 - Complementary and Integrative Health Therapies			X
NUR 3950 - Interprofessional Education (IPE)			X
NUR 4001 - Preparing for NCLEX Licensure Success			X
NUR 4010 - Supportive Care for End-of-Life, Mental Health, and Trauma-Informed Care			X
NUR 4015 - Chronic Health Challenges (ASD)			X
NUR 4020 - Complex High Acuity Health Challenges			X
PHL 2980 - Topics in Philosophy*			X
PHL 2999 - Philosophy Independent Study*			X
PHL 3104 - Eastern Philosophy			X
PHL 3201 - Introduction to Philosophy			X
PHL 3202 - Introduction to Logic			X
PHL 3203 - Epistemology			X
PHL 3204 - Metaphysics			X
PHL 3205 - Minds, Brains, and Computers			X
PHL 3206 - Social and Political Philosophy			X
PHL 3207 - Philosophy of Science			X
PHL 3208 - Philosophy of Art			X
PHL 3980 - Topics in Philosophy*			X
PHL 3999 - Philosophy Independent Study*			X
PHL 4980 - Topics in Philosophy*			X
PHL 4999 - Philosophy Independent Study*			X
PSC 2010 - Foundations of Political Science			X
PSC 2011 - American Government			X
PSC 2015 - International Relations			X
PSC 2016 - Urban Studies			X
PSC 2980 - Topics in Political Science*			X
PSC 2999 - Political Science Independent Study*			X
PSC 3980 - Topics in Political Science*			X
PSC 3999 - Political Science Independent Study*			X
PSC 4980 - Topics in Political Science*			X
PSC 4999 - Political Science Independent Study*			X
PSY 1001 - Foundations of Psychology			X
PSY 2002 - Psychology of Design			X
PSY 2003 - Organizational Psychology			X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
PSY 2005 - The Family: Psychological and Social Perspectives			X
PSY 2006 - Death, Dying, and Grief			X
PSY 2007 - Addictive and Compulsive Behavior			X
PSY 2010 - Understanding Human Language			X
PSY 2980 - Topics in Psychology*			X
PSY 2999 - Psychology Independent Study*			X
PSY 3001 - Cognitive Psychology			X
PSY 3002 - Psychological Disorders and Mental Health			X
PSY 3003 - Developmental Psychology			X
PSY 3004 - Social Psychology			X
PSY 3980 - Topics in Psychology*			X
PSY 3999 - Psychology Independent Study*			X
PSY 4980 - Topics in Psychology*			X
PSY 4999 - Psychology Independent Study*			X
SCI 1610 - Environmental Science			X
SCI 2000 - Sound and Light			X
SCI 2410 - Limnology: The Science of Inland Waters			X
SCI 3010 - Structure and Properties of Modern Materials			X
SCI 3610 - Science of Climate Change			X
SCI 3700 - Physical Geology			X
SCI 3750 - Nanoscience and Nanotechnology			X
SOC 1001 - Foundations of Sociology			X
SOC 2980 - Topics in Sociology*			X
SOC 2999 - Sociology Independent Study*			X
SOC 3001 - Cybercrime: Human Perspectives			X
SOC 3980 - Topics in Sociology*			X
SOC 3999 - Sociology Independent Study*			X
SOC 4001 - Digital Society			X
SOC 4980 - Topics in Sociology*			X
SOC 4999 - Sociology Independent Study*			X
SPN 1001 - Elementary Spanish			X
SPN 2001 - Intermediate Spanish			X
SPN 2999 - Spanish Independent Study*			X
SPN 3001 - Advanced Spanish			X
SPN 3980 - Topics in the Spanish-Speaking World*			X
SPN 3999 - Spanish Independent Study*			X
SPN 4980 - Topics in the Spanish-Speaking World*			X
SPN 4999 - Spanish Independent Study*			X
TCM 1010 - Argument and Persuasion			X
TCM 1020 - Writing for Digital Media			X

Electives allowed in the EE Curriculum <i>Courses marked with the superscript * require EE Program Director Approval</i>	ECBE/DSAC	Tech	Free
TCM 2010 - Interpersonal Communication			X
TCM 2020 - Communication Dynamics of High-Performance Teams			X
TCM 2050 - Health Care Communication			X
TCM 2060 - Communication Graphics for Professionals			X
TCM 2999 - Technical Communication Independent Study*			X
TCM 3010 - Digital Storytelling			X
TCM 3020 - Advanced Presentations			X
TCM 3030 - e-Learning Development			X
TCM 3110 - Project Communications			X
TCM 3210 - User Documentation			X
TCM 3980 - Topics in Technical Communication*			X
TCM 3999 - Technical Communication Independent Study*			X
TCM 4980 - Topics in Technical Communication*			X
TCM 4999 - Technical Communication Independent Study*			X
UXD 1001 - Human-Centered Design			X
UXD 1020 - Visual Design			X
UXD 1030 - Interface Design			X
UXD 1040 - Design Thinking			X