

Student ID: _____
 Student Name: _____
 Adviser Name: _____

Catalog: 2015-2016 Undergraduate Academic Catalog
 Program: Electrical Engineering B.S.
 Minimum Credits Required: _____

Electrical Engineering B.S.

Electrical Engineering Model Full-time Traditional Track - V16.0

Year One

Fall

Course Name	credits	Term Taken	Grade	Gen Ed
EE 1000 - Introduction to Electrical Engineering	4 credits			
CH 200 - Chemistry I	4 credits			
MA 136 - Calculus for Engineers I	4 credits			
GS 1001 - Freshman Studies I	4 credits			

Total: 14 lecture hours - 4 lab hours - 16 credits

Winter

Course Name	credits	Term Taken	Grade	Gen Ed
EE 1910 - Introduction to Embedded Systems Programming	4 credits			
CE 1901 - Digital Logic 1	4 credits			
MA 137 - Calculus for Engineers II	4 credits			
GS 1002 - Freshman Studies II	4 credits			

Total: 14 lecture hours - 4 lab hours - 16 credits

Spring

Course Name	credits	Term Taken	Grade	Gen Ed
EE 2050 - Linear Circuits - Steady State I	4 credits			
CE 1911 - Digital Logic 2	4 credits			
MA 231 - Calculus for Engineers III	4 credits			
GS 1003 - Freshman Studies III	4 credits			

Total: 14 lecture hours - 4 lab hours - 16 credits

Year Two

Fall

Course Name	credits	Term Taken	Grade	Gen Ed
EE 2060 - Linear Circuits - Steady State II	4 credits			
EE 2920 - Embedded Systems	4 credits			
MA 235 - Differential Equations for Engineers	4 credits			
PH 2011 - Physics I - Mechanics	4 credits			

Total: 13 lecture hours - 6 lab hours - 16 credits

Winter

Course Name	credits	Term Taken	Grade	Gen Ed
EE 2070 - Linear Circuits - Transients	3 credits			
EE 2931 - Systems Interfacing	4 credits			
MA 232 - Calculus for Engineers IV	3 credits			
MA 262 - Probability and Statistics	3 credits			
PH 2021 - Physics II - ElectroMagnetism	4 credits			

Total: 15 lecture hours - 4 lab hours - 17 credits

Spring

Course Name	credits	Term Taken	Grade	Gen Ed
MA 383 - Linear Algebra	3 credits			

PH 2031 - Waves, Optics, Thermodynamics, and Quantum Physics	4 credits			
EE 2510 - Introduction to Object-Oriented Programming	3 credits			
<ul style="list-style-type: none"> Elective (HU, SS)¹ 3 credits MS 2220 - Foundations of Business Economics² 				
Total: 14 lecture hours - 4 lab hours - 16 credits				
Year Three				
Fall				
Course Name	credits	Term Taken	Grade	Gen Ed
EE 3050 - Dynamic Systems	3 credits			
EE 3102 - Analog Electronics I	4 credits			
EE 3921 - Digital System Design	4 credits			
ME 354 - Thermodynamics and Heat Transfer	3 credits			
Total: 12 lecture hours - 4 lab hours - 14 credits				
Winter				
Course Name	credits	Term Taken	Grade	Gen Ed
EE 3720 - Control Systems	4 credits			
EE 3112 - Analog Electronics II	4 credits			
EE 3204 - Electric and Magnetic Fields	4 credits			
EE 3032 - Signals and Systems	4 credits			
GE 300 - Career and Professional Guidance	1 credits			
Total: 16 lecture hours - 4 lab hours - 17 credits				
Spring				
Course Name	credits	Term Taken	Grade	Gen Ed
EE 3221 - Digital Signal Processing	4 credits			
EE 3401 - Electromechanical Energy Conversion	4 credits			
EE 3214 - Electromagnetic Waves	4 credits			
IE 423 - Engineering Economy	3 credits			
Total: 12 lecture hours - 6 lab hours - 15 credits				
Year Four				
Fall				
Course Name	credits	Term Taken	Grade	Gen Ed
EE 407 - Senior Design Project I	3 credits			
EE 4022 - Principles of Communications	4 credits			
PH 3600 - Physics of Semiconductor Materials and Devices	4 credits			
<ul style="list-style-type: none"> Elective (Technical)¹ 3 credits Elective (Math or Science)¹ 3 credits 				
Total: 14 lecture hours - 7 lab hours - 17 credits				
Winter				
Course Name	credits	Term Taken	Grade	Gen Ed
EE 408 - Senior Design Project II	3 credits			
<ul style="list-style-type: none"> Elective (Technical)¹ 3 credits Elective (Technical)¹ 3 credits Elective (HU, SS)¹ 3 credits Elective (HU, SS)¹ 3 credits 				
Total: 14 lecture hours - 3 lab hours - 15 credits				
Spring				
Course Name	credits	Term Taken	Grade	Gen Ed

EE 409 - Senior Design Project III	3 credits			
HU 432 - Ethics for Professional Managers and Engineers	3 credits			
<ul style="list-style-type: none"> • Elective (Technical)¹ 3 credits • Elective (HU, SS)¹ 3 credits • Elective (HU, SS)¹ 3 credits 				

Total: 14 lecture hours - 3 lab hours - 15 credits

Notes:

¹ The 30 credits of elective subjects in the electrical engineering program must be taken as follows:

- 6 credits of humanities (HU)
- 6 credits of social science (SS)
- 3 credits of humanities (HU) or social science (SS)
- 12 credits of approved EE program technical electives
- 3 credits of approved math or science elective

² MS 221, Microeconomics can be used as a substitute for MS 2220.

Transfer students will be required to complete OR 307S, Transfer Orientation Seminar.

Students in Air Force ROTC may make the following course substitutions: the course combination AF 4141/AF 4142 for SS 455 (a social science elective), AF 4143 for technical elective, and the course sequence AF 3131/AF 3132 /AF 3133 for EE 3214. Additional AF courses cannot be used to satisfy any electrical engineering requirements.

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