



College of Engineering
The Klipsch School of
Electrical and Computer Engineering

BSEE REQUIREMENTS

2017-2018, Rev 4

This document presents a summary of the requirements for earning a Bachelor of Science degree in Electrical Engineering (BSEE) from New Mexico State University (NMSU). It is intended as a guide, and is in no way meant to replace or amend the 2017-2018 Undergraduate Catalog.

Catalog Selection: The requirements outlined below are specific to the 2017-2018 catalog and may be different from those of other catalogs. The requirements set forth in the 2017-2018 catalog are in effect from the beginning of the 2017 summer term until the end of the 2022 spring term. Students graduating after their catalog of matriculation has expired may meet the requirements of any catalog in effect at the time of graduation. Note, however, that changing catalogs may render classes already taken inapplicable toward graduation. Always check with an advisor before deciding to change catalogs.

Departmental Responsibilities: The Klipsch School is responsible for:

1. Providing current lists of approved elective courses for each category. The lists of approved electives are subject to change at any time. To ensure proper course selection, when registering be sure to use an up-to-date list, or check with an advisor. Lists of currently acceptable electives are also available at ece.nmsu.edu
2. Assisting students in curriculum planning, selection of electives, and scheduling.
 - a. The ECE department maintains an “Open Door” policy. All faculty members are available for consultation.
 - b. Each semester, before registering for classes, all undergraduate students must be advised. The department office maintains a list of advisor assignments.

Student Responsibilities: *It is the responsibility of each student to ensure that all the requirements for graduation have been met.* In general, each student is responsible for:

1. Following all university regulations, as listed in the 2017-2018 NMSU Catalog. The catalog is the ultimate authority when it comes to regulations, this BSEE REQUIREMENTS handout is merely a summary of the information specific to Electrical Engineering students.
2. Following all college requirements, as listed in the 2017-2018 NMSU catalog.
3. Following all departmental requirements, as listed in the 2017-2018 NMSU catalog. In particular, be aware that elective choices must be made such that:
 - a. The selected course is a **currently** approved elective in the desired category.
 - b. A minimum of 120 credits is completed, of which 45 must be numbered 300-499.

4. Taking courses in the proper sequence. Most courses have co- and/or prerequisites. These are listed in the course descriptions of the 2017-2018 NMSU catalog. A prerequisite **must** have been completed (**with a grade of `C-`, or better**) prior to enrolling in the class, while a co-requisite may be taken either at the same time, or prior to, the class. Enrolling in a class without the proper preparation is grounds for administrative removal from the course, potentially impacting on full-time status, financial aid eligibility, and/or graduation plans. A summary of the co- and prerequisites for Electrical Engineering classes is included as Table 5. Co- and prerequisites for a class may change in the future, so check the current catalog, or ask the course instructor, for the latest requirements.

Note also that some prerequisites apply universally and are not listed for individual classes. For example: the university has made ENGL 111 a prerequisite to **all** courses numbered 300-499. The college has made MATH 192 a co-requisite to all engineering courses numbered 300-499. The department has made EE 100 and EE112 a prerequisite to all EE classes numbered 300-499.

5. Monitoring their official NMSU email account. Each student is issued an email address in the @nmsu.edu domain. This address is used for official communication and students are responsible for all messages sent to that address.

Transfer Credit: Credit earned at other institutions is generally accepted, however:

- Engineering credit must be earned at an ABET accredited school.
- Physics must be calculus-based.
- If the NMSU requirement includes a laboratory, the transfer credit must include a lab.
- A grade of 'C-', or better, must have been earned.
- Cornerstone and Capstone, and EE Electives may not be transferred.

Table 1

BSEE Degree Requirements 2017-2018

General Education Requirements (43 credits)

State of New Mexico General Education Common Core (37 credits)		Credits
Area I: Written Communication	Two courses ¹	7
Oral Communication	One course ¹	3
Area II: Mathematics	Calculus I (MATH 191)	4
Area III: Natural Science	General Chemistry I ² (CHEM 111)	4
	Engineering Physics I ² (PHYS 215)	4
Area IV: Social & Behavioral Sciences	Two or Three classes ^{1,3}	6-9
Area V: Humanities & Fine Arts	Two or Three classes ^{1,3}	6-9

NMSU General Education Requirements (6 credits)

Viewing a Wider World Electives	Two courses ^{1,4}	6
---------------------------------	----------------------------	---

Program Specific Requirements (77-79 credits)

Mathematics & Natural Science (18 credits)

EE 200 Linear Algebra, Probability and Statistics Applications ²	4
EE 240 Multivariate and Vector Calculus Applications	3
MATH 192 Calculus II	4
MATH 392 Differential Equations	3
PHYS 216 and PHYS 216L Engineering Physics II ²	4

Engineering (59-61 credits)

ENGR 100 Introduction to Engineering	3
EE 100 Introduction to Electrical and Computer Engineering ²	4
EE 112 Embedded Systems ²	4
EE 212 Introduction to Computer Architecture and Organization ²	4
EE 230 AC Circuit Analysis and Introduction to Power Systems ²	4
EE 300 Cornerstone Design ⁵	2
EE 380 Semiconductor Devices and Electronics ² (To be renumbered EE 317)	4
EE 312 Signals and Systems I (To be renumbered EE 320)	3
EE 314 Signals and Systems II ² (To be renumbered EE 325)	4
EE 351 Fields and Waves ² (To be renumbered EE 340)	4
EE 418 Capstone Design ⁵ (To be renumbered EE 402)	3
EE Concentration Courses (Four courses from Table 2) ⁵	14 or 15
STEM Elective (One course from Table 4) ⁴	3
Object-Oriented Programming (One course from Table 3)	3 or 4

TOTAL

120 - 122

Notes:

1. See the 2016-2017 Undergraduate Catalog for course lists and details.
2. Including laboratory.
3. Students must complete 15 total credits from these two areas, with at least 6 credits from each area.
4. Three 300+ courses (9 credits) in one specific subject count as a VWW course for that subject. Commonly, E E students take upper division MATH or C S courses as STEM Electives. For that reason, it is advised NOT to take a VWW course from the College of Arts and Sciences, at least until all STEM Electives are chosen.
5. Transfer credit not accepted.

Table 2 Electrical and Computer Engineering Concentrations

Select One Concentration Area or No Concentration

Completed Concentration will be Appear on Transcript and Diploma

Communications and Signal Processing (14 credits)

Communications and Signal Processing are significant areas within the broader field of electrical engineering. This concentration give students the opportunity to specialize by a suitable choice of junior/senior elective courses. The goal is to enhance prospects for employment and/or graduate study.

Required (4 cr each):

EE 395 Introduction to Digital Signal Processing (Will add recitation or lab)

EE 496 Introduction to Communications Systems

Choose two such that at least one has EE prefix (3 cr each):

EE 446 Digital Image Processing

C S 478 Computer Security

EE 447 Neural Signal Processing

C S 483 Introduction to Robotics

EE 460 Space System Mission Design, Analysis

C S 486 Bioinformatics

EE 469 Communications Networks

C S 493 Algorithm Design and Implementation

EE 497 Digital Communication Systems I

MATH 471 Complex Variables

C S 343 Algorithm Design & Implementation

MATH 472 Fourier Series, Boundary Value Prob

C S 372 Data Structures and Algorithms (4 cr)

MATH 473 Calculus of Variations, Optimal Cntrl

C S 453 Python Programming I

MATH 480 Matrix Theory, Appl. Lin. Algebra

C S 454 Python Programming II

MATH 481 Advanced Linear Algebra

C S 475 Artificial Intelligence I

MATH 491 Introduction to Real Analysis I

C S 476 Computer Graphics I

STAT 470 Probability: Theory & Applications

C S 477 Digital Game Design

Computers and Microelectronics (14 credits)

Computers and Microelectronics are significant areas within the broader field of electrical engineering. This concentration give students the opportunity to specialize by a suitable choice of junior/senior elective courses. The goal is to enhance prospects for employment and/or graduate study.

Required (4 cr each):

EE 363 Computer Systems Architecture (Will be renumbered > 450)

EE 480 Introduction to Analog and Digital VLSI

Choose two such that at least one has EE prefix (3 cr each):

EE 425 Introduction to Semiconductor Devices

C S 371 Software Development (4 cr)

EE 443 Mobile Application Development

C S 372 Data Structures and Algorithms (4 cr)

EE 469 Communications Networks

C S 453 Python Programming I

EE 482 Electronics II

C S 474 Operating Systems I

EE 485 Analog VLSI Design

C S 478 Computer Security

EE 486 Digital VLSI Design

C S 480 Linux System Administration

CHME 462 MEMs, BioMEMs, Nano Devices

C S 481 Visual Programming

CHME 467 Nanoscience and Nanotechnology

C S 482 Database Management Systems I

C S 343 Algorithm Design & Implementation

C S 491 Parallel Programming

C S 370 Compilers and Automata Theory (4 cr)

C S 493 Algorithm Design and Implementation

Table 2 continues on next page.

Table 2 (Cont'd)

Control and Power (14 credits)

Control and Power Systems are significant areas within the broader field of electrical engineering. This concentration give students the opportunity to specialize by a suitable choice of junior/senior elective courses. The goal is to enhance prospects for employment and/or graduate study.

Required (4 cr each):

- EE 431 Power Systems II (Will add recitation or lab)
- EE 475 Automatic Control Systems (Will add recitation or lab)

Choose two such that at least one has EE prefix (3 cr each):

- | | |
|--|---|
| EE 426 Introduction to Smart Grid | M E 487 Mechatronics |
| EE 432 Power Electronics | C S 343 Algorithm Design & Implementation |
| EE 476 Computer Control Systems | C S 483 Introduction to Robotics |
| EE 493 Power Systems III | C S 493 Algorithm Design and Implementation |
| CHME 361 Engineering Materials | MATH 480 Matrix Theory, App. Linear Algebra |
| M E 481 Alternative and Renewable Energy | |

Electromagnetics and Photonics (14 credits)

Electromagnetics and Photonics are significant areas within the broader field of electrical engineering. This concentration give students the opportunity to specialize by a suitable choice of junior/senior elective courses. The goal is to enhance prospects for employment and/or graduate study.

Required (4 cr each):

- EE 454 Antennas and Radiation (Will add recitation or lab)
- EE 473 Introduction to Optics (Will add recitation or lab)

Choose two such that at least one has EE prefix (3 cr each):

- | | |
|--|---|
| EE 425 Introduction to Semiconductor Devices | ASTR 402 Intro to Astronomical Observations |
| EE 449 Smart Antennas | ASTR 402 Intro to Astronomical Observations |
| EE 452 Introduction to Radar | MATH 471 Complex Variables |
| EE 453 Microwave Engineering | MATH 472 Fourier Series, Boundary Value Prob. |
| EE 478 Fundamentals of Photonics (4 cr) | MATH 480 Matrix Theory, App. Linear Algebra |
| EE 479 Lasers and Applications (4 cr) | PHYS 315 Modern Physics |
| CHME 311 Engineering Data Analysis | PHYS 471 Modern Experimental Optics |
| CHME 467 Nanoscience and Nanotechnology | PHYS 467 Nanoscience and Nanotechnology |
| M E 328 Engineering Analysis II | |

No Concentration (15 credits total)

- One of the required courses from each of three concentrations (12 credits)
- A second course from Table 4, STEM Elective (3 credits)

Table 3 Object-Oriented Programming Elective

Select One Course (3 or 4 credits)

C S 151	C++ Programming	(3 cr)
C S 152	Java Programming	(3 cr)
C S 172	Computer Science I (Java)	(4 cr)
C S 271	Object-Oriented Programming (C++)	(4 cr)

Table 4 STEM Electives

Select One Course (3 credits)

1. Any additional 300+ course in E E from Table 2
2. Any 300+ in A E, C E, CHME, I E, M E (see Exception List below)
3. Any 300+ in ASTR, BIOL, CHEM, C S, MATH, PHYS, STAT (see Exception List below)

STEM Elective Exception List (Courses NOT allowed as STEM Electives)

C E/CHME/E E/E T/I E/M E 330	Environmental Management Seminar I
C E/CHME/E E/E T/I E/M E 430	Environmental Management Seminar II
C E 355V ¹	Technology and the Global Environment
CHME 395V ¹	Brewing Science and Society
ASTR 301V ¹	Revolutionary Ideas in Astronomy
ASTR 305V ¹	The Search for Life in the Universe
ASTR 308V ¹	Into the Final Frontier
ASTR 330V ¹	Planetary Exploration
CHEM 310V ¹	Chemistry and Society
C S 450 ²	C Programming
C S 451	C++ Programming (similar to C S 151)
C S 452	Java Programming (similar to C S 152)
C S 460-469	... Transition (courses intended for C S graduate students only)
C S 473 ²	Architectural Concepts I
C S 484 ²	Computer Networks I
C S 494 ²	Introduction to Smart Grids
MATH 313	Fundamentals of Algebra and Geometry I (for math education majors)
MATH 316	Calculus with Hands-on Applications (for math education majors)
MATH 391 ²	Vector Analysis
MATH 392 ³	Introduction to Ordinary Differential Equations
MATH 411V ¹	Great Theorems: The Art of Mathematics
PHYS 303V ¹	Energy and Society in the New Millennium
PHYS 305V ¹	The Search for Water in the Solar System
PHYS 473 ²	Introduction to Optics
PHYS 477 ²	Fiber Optic Communication
PHYS 478 ²	Fundamentals of Photonics
PHYS 479 ²	Lasers and Applications
STAT 371 ²	Statistics for Engineers and Scientists I

- Notes:
1. All Viewing a Wider World Courses NOT allowed
 2. Courses with similar/same content found in E E courses NOT allowed
 3. BSEE program required course

Table 5
Co- and Pre-requisites, (**Required courses in 2017-2018 catalog in bold**)

Course	Title	Pre-requisites ¹	Pre/Co-requisites
E E 100	Intro to Electrical & Computer Engin.		MATH 190
E E 112	Embedded Systems	E E 100	
E E 161	Computer Aided Prob. Solving (to be deleted)		MATH 190
E E 162	Digital Circuit Design (to be deleted)	MATH 190 and E E 161	
E E 200	Linear Algebra, Probability, Statistics Apps	MATH 192 and E E 112	
E E 210	Engineering Analysis I (to be deleted)	MATH 192 and E E 161	
E E 212	Intro to Computer Archit. & Organization	MATH 190 and E E 112	
E E 230	AC Circuit Analysis & Intro to Power Sys.	MATH 192, PHYS 215 and E E 100	
E E 240	Multivariate and Vector Calculus Apps	E E 200	
E E 260	Embedded Systems (to be deleted)	E E 162	
E E 280	DC & AC Circuits (to be deleted)	MATH 192 and PHYS 216	
E E 300	Cornerstone Design	E E 212 and E E 230	
E E 310	Engineering Analysis II (to be deleted)	MATH 291 and E E 210	
E E 312	Signals & Systems I (to become E E 320)	E E 210, E E 280 and MATH 392	
E E 314	Signals & Systems II (to become E E 325)	E E 312	
E E 351	App. Electromagnetics (to become E E 340)	E E 280 and E E 310	
E E 363	Computer Systems Architecture I	E E 260	
E E 380	Electronics I (to become E E 317)	E E 162, E E 280 and CHEM 111	
E E 391	Intro to Electric Power Engin. (to be deleted)	E E 280	
E E 395	Introduction to Digital Signal Processing	E E 314	
E E 400	Undergraduate Research		
E E 402	Capstone Design	E E 300, E E 314, E E 351 & E E 380	
E E 418	Capstone Design I (to be deleted)	E E 260, 314, 351, 380 and 391	E E 461
E E 419	Capstone Design II (to be deleted)	E E 418	
E E 425	Introduction to Semiconductor Devices	E E 351 and E E 380	
E E 426	Introduction to Smart Grid	E E 280	
E E 431	Power Systems II	E E 391	
E E 432	Power Electronics	E E 380 and E E 391	E E 314
E E 437	Energy Harvesting	E E 380 and E E 391	
E E 443	Mobile Application Development	E E 161, C S 172, C S 271, C S 450, C S 451 or C S 452	
E E 446	Digital Image Processing	E E 395	
E E 447	Neural Signal Processing	E E 314	
E E 449	Smart Antennas	E E 314 and E E 351	
E E 452	Introduction to Radar	E E 351	E E 496
E E 453	Microwave Engineering	E E 351	
E E 454	Antennas and Radiation	E E 351	
E E 460	Satellite Design	Junior Standing	
E E 461	Program Management	Junior Standing	
E E 469	Digital Communications Networks	E E 162 and E E 210	
E E 470	Physical Optics	E E 370 and PHYS 216	
E E 471	Modern Experimental Optics		E E 470
E E 473	Introduction to Optics	PHYS 216	
E E 475	Control Systems II	E E 314	
E E 476	Computer Control Systems	E E 314	
E E 477	Fiber Optic Communication Systems	E E 351	
E E 478	Optical Sources, Detectors, and Radiometry	E E 370 and PHYS 216	
E E 479	Lasers and Applications	E E 351	
E E 480	Introduction to VLSI	E E 260 and E E 380	
E E 482	Electronics II	E E 380	
E E 483	RF Microelectronics	E E 351 and E E 480	
E E 485	Analog VLSI Design	E E 312 and E E 480	
E E 486	Digital VLSI Design	E E 480	
E E 490	Selected Topics	Consent of Instructor	
E E 493	Power Systems III	E E 391	
E E 494	Distribution Systems	E E 431	E E 493
E E 496	Introduction to Communications Systems	E E 314	
E E 497	Digital Communications Systems I	E E 314	

Notes: 1. A grade of C-, or better, is required in all prerequisite classes.

Table 6

Equivalent Courses between New and Old Curricula

New Curriculum (2016+ Catalog)		Old Curriculum (Prior to 2016 Catalog)	
Course	Title	Course	Title
E E 100	Introduction to Electrical & Computer Engin.	E E 162	Digital Circuit Design
E E 112	Embedded Systems	E E 161	Computer Aided Prob. Solving AND
		E E 260	Embedded Systems
E E 200	Linear Algebra, Probability, Statistics Apps	E E 210	Engineering Analysis I
E E 212	Intro to Computer Archit. & Organization	E E 363	Computer Systems Architecture I
E E 230	AC Circuit Analysis & Intro to Power Sys.	E E 280	DC & AC Circuits AND
		E E 391	Intro to Electric Power Engineering
E E 240	Multivariate and Vector Calculus Apps	E E 310	Engineering Analysis II
E E 300	Cornerstone Design	E E 418	Capstone Design I
E E 317	Semiconductor Devices and Electronics	E E 380	Electronics I
E E 320	Signals & Systems I	E E 312	Signals & Systems I
E E 325	Signals & Systems II	E E 314	Signals & Systems II
E E 340	Fields and Waves	E E 351	App. Electromagnetics
E E 402	Capstone Design	E E 419	Capstone Design II

BSEE Sample Degree Plan

(120 – 122 Credits)

FRESHMAN-FIRST YEAR			
FALL SEMESTER		SPRING SEMESTER	
Course #	CR	Course #	CR
EE 100 Intro Electrical & Comp. Engin.	4	CHEM 111 General Chemistry I	4
ENG 100 Freshman Experience	3	EE 112 Embedded Systems	4
ENGL 111G Rhetoric & Composition	4	MATH 192 Calculus II	4
MATH 191 Calculus I	4	<i>General Edu Req (I,IV,V or VWW)</i>	3
	15		15

SOPHOMORE-SECOND YEAR			
FALL SEMESTER		SPRING SEMESTER	
Course #	CR	Course #	CR
EE 212 Intro Comp Arch & Org	4	MATH 392 Differential Equations	3
EE 200 Linear Alg, Prob & Stat Apps	4	EE 230 AC Circuits & Intro Power Sys.	4
PHYS 215 + 215L Physics I	4	EE 240 Multivariate & Vector Calc Apps	3
<i>General Edu Req (I,IV,V or VWW)</i>	3	PHYS 216 + 216L Physics II	4
	15		14

JUNIOR-THIRD YEAR			
FALL SEMESTER		SPRING SEMESTER	
Course #	CR	Course #	CR
EE 300 Cornerstone Design	2	EE 317 Semicond. & Electronics	4
EE 320 Signals & Systems I	3	EE 325 Signals & Systems II	4
EE 340 Fields & Waves	4	EE Concentration Required	4
<i>General Edu Req (I,IV,V or VWW)</i>	3	<i>General Edu Req (I,IV,V or VWW)</i>	3
<i>General Edu Req (I,IV,V or VWW)</i>	3		
	15		15

SENIOR-FOURTH YEAR			
FALL SEMESTER		SPRING SEMESTER	
Course #	CR	Course #	CR
EE Concentration Required	4	OO Programming Elective (or 4 CR)	3
STEM Elective	3	EE Concentration Elective (or 4 CR)	3
EE 402 Capstone Design	3	STEM Elective	3
<i>General Edu Req (I,IV,V or VWW)</i>	3	<i>General Edu Req (I,IV,V or VWW)</i>	3
<i>General Edu Req (I,IV,V or VWW)</i>	3	<i>General Edu Req (I,IV,V or VWW)</i>	3
	16	(or 16 or 17 CR)	15

General Education Requirement:

- (2) courses from Area I (wait till 2nd year to take ENGL 218G Technical & Scientific Communication)
- (2) or (3) courses from Area IV,
- (3) or (2) courses from Area V, and
- (2) Viewing a Wider World (VWW) courses.

BSEE Sample Degree Plan Diagram (120 – 122 Credits)

Freshman 15		Sophomore 15		Junior 15		Senior 15 – 17	
<div style="text-align: right; font-weight: bold;">4</div> MATH 191 Calculus I <small>MATH 190 or MATH PLACEMENT</small>	<div style="text-align: right; font-weight: bold;">4</div> MATH 192 Calculus II <small>MATH 191</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 200 Linear Algebra, Prob. & Stat. <small>E E 112, MATH 192</small>	<div style="text-align: right; font-weight: bold;">3</div> E E 240 Multivariate & Vector Calc. <small>E E 200, MATH 192</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 340 (351) Fields and Waves <small>E E 200, E E 230, E E 240</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 317 (380) Semiconductors & Electronics <small>CHEM 111, E E 230</small>	<div style="text-align: right; font-weight: bold;">3</div> E E 402 Capstone Design <small>E E 300, E E 317, E E 325, E E 340</small>	<div style="text-align: right; font-weight: bold;">3 – 4</div> Object-Oriented Programming Elective
<div style="text-align: right; font-weight: bold;">3</div> ENGR 100 Intro to Engineering <small>(MATH 121)</small>	<div style="text-align: right; font-weight: bold;">4</div> CHEM 111 General Chemistry I <small>MATH 120</small>	<div style="text-align: right; font-weight: bold;">4</div> PHYS 215 + 215L Engineering Physics I <small>MATH 191</small>	<div style="text-align: right; font-weight: bold;">4</div> PHYS 216 + 216L Engineering Physics II <small>MATH 192, PHYS 215</small>	<div style="text-align: right; font-weight: bold;">3</div> E E 320 (312) Signals and Systems I <small>E E 200, E E 230 (MATH 392)</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 325 (314) Signals and Systems I <small>E E 320, MATH 392</small>	<div style="text-align: right; font-weight: bold;">3</div> STEM Elective <small>1 of 2</small>	<div style="text-align: right; font-weight: bold;">3</div> STEM Elective <small>2 of 2</small>
<div style="text-align: right; font-weight: bold;">4</div> E E 100 Intro Elect. Engineering <small>(MATH 190)</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 112 Embedded Systems <small>E E 100</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 212 Intro to Comp. Arch. & Org. <small>E E 112, MATH 190</small>	<div style="text-align: right; font-weight: bold;">4</div> E E 230 AC Circuits & Intro to Power <small>E E 100, MATH 192 (PHYS 216)</small>	<div style="text-align: right; font-weight: bold;">2</div> E E 300 Cornerstone Design <small>E E 212, E E 230</small>	<div style="text-align: right; font-weight: bold;">4</div> E E Concentration Required <small>1 of 2</small>	<div style="text-align: right; font-weight: bold;">4</div> E E Concentration Required <small>2 of 2</small>	<div style="text-align: right; font-weight: bold;">3 – 4</div> E E Concentration Elective <small>2 of 2</small>
<div style="text-align: right; font-weight: bold;">4</div> ENGL 111 Rhetoric & Composition <small>ENGLISH PLACEMENT</small>	<div style="text-align: right; font-weight: bold;">3</div> COMM 265 Princ. Human Communication	<div style="text-align: right; font-weight: bold;">3</div> ENGL 218 Technical & Sci. Communication <small>ENGL 111</small>	<div style="text-align: right; font-weight: bold;">3</div> MATH 392 Differential Equations <small>MATH 192</small>	<div style="text-align: right; font-weight: bold;">3</div> General Education Area IV or V <small>1 of 5</small>	<div style="text-align: right; font-weight: bold;">3</div> General Education Area IV or V <small>3 of 5</small>	<div style="text-align: right; font-weight: bold;">3</div> General Ed. View. Wider World <small>1 of 2</small>	<div style="text-align: right; font-weight: bold;">3</div> General Ed. View. Wider World <small>2 of 2</small>
Pre-requisite, e.g., E E 100 Co-requisite, e.g., (MATH 190)				<div style="text-align: right; font-weight: bold;">3</div> General Education Area IV or V <small>2 of 5</small>		<div style="text-align: right; font-weight: bold;">3</div> General Education Area IV or V <small>4 of 5</small>	<div style="text-align: right; font-weight: bold;">3</div> General Education Area IV or V <small>5 of 5</small>

ECE Core Curriculum Flowchart (2017-2018)

