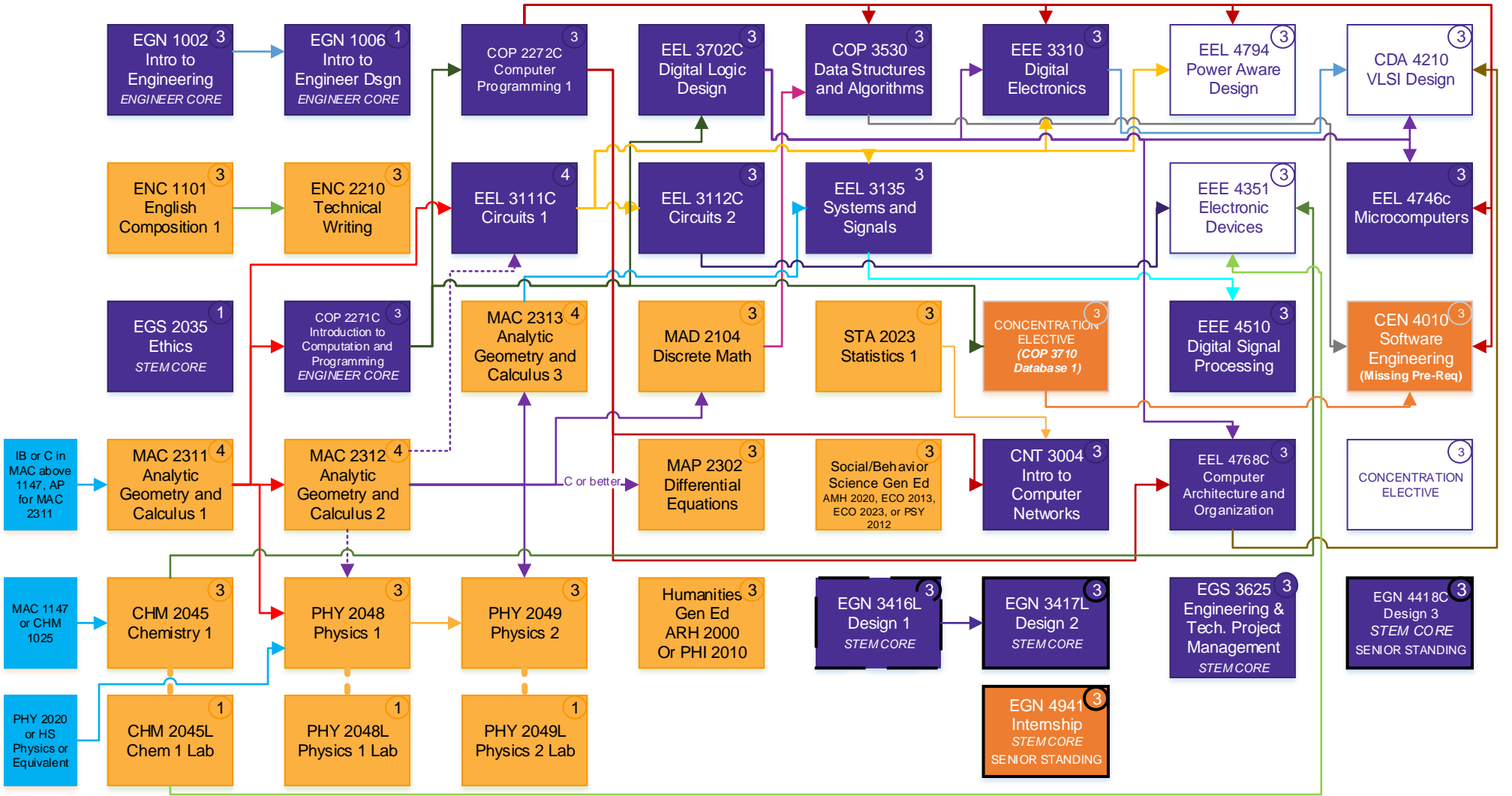


# BS in Computer Engineering Digital Logic Design

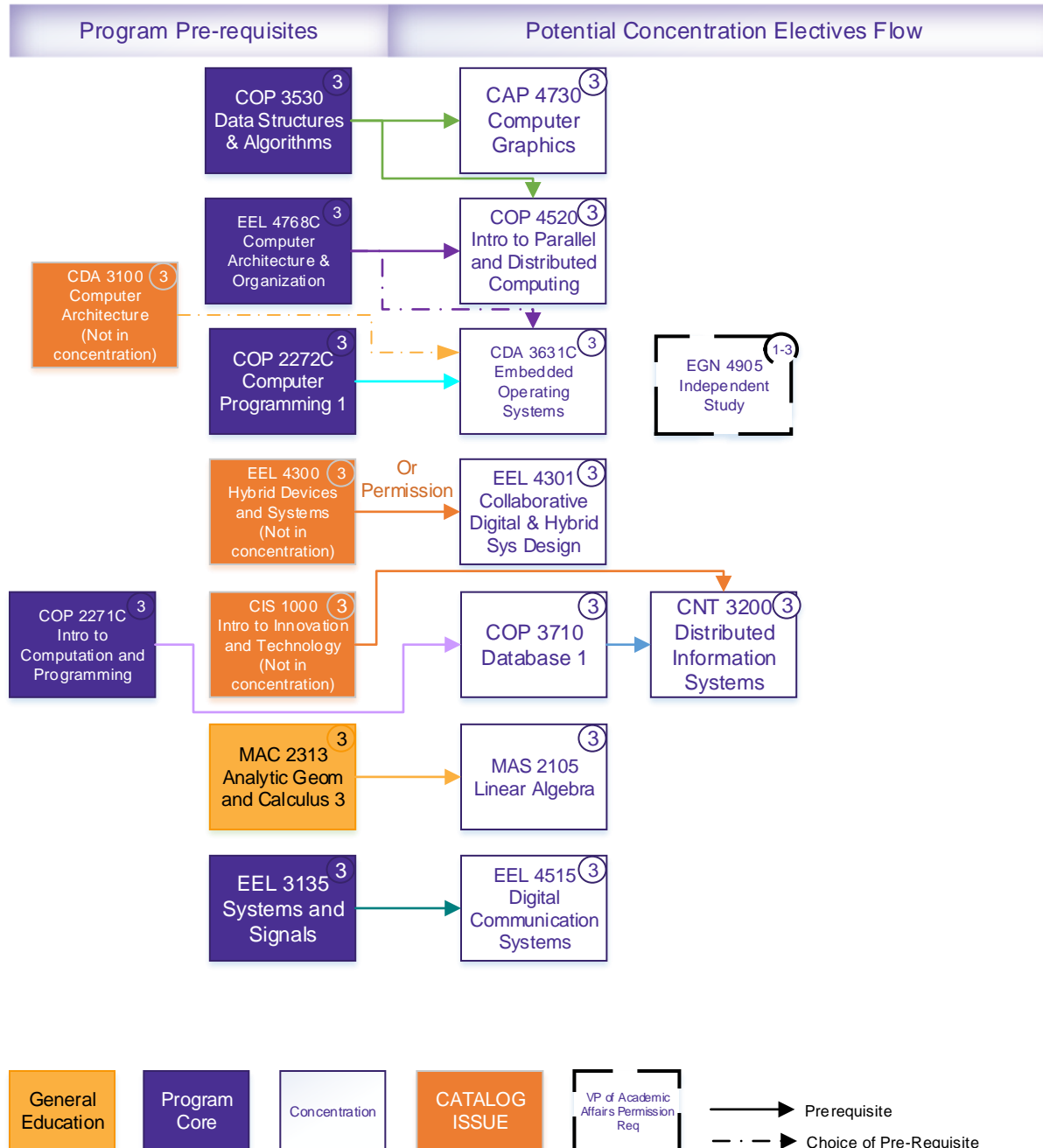
2016-2017 Catalog

Pre-College	Freshman Year		Sophomore Year		Junior Year		Senior Year	
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2



General Ed	Program Core	Concentration	VP of Academic Affairs Permission Req	Program Director Permission Req	Other Req (outside FLPoly)	CATALOG ISSUE
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→	Prerequisite
---→	Co-requisite
---→	Pre-requisite OR Co-Requisite



**Digital Logic Design**  
**Total Degree Credits: 120**

2016-2017 Catalog

[Click here to view the Computer Engineering, B.S.](#)

**Freshman Year**

**Semester 1**

Course Name	Credits:	Term Taken	Grade	Gen Ed
CHM 2045 - Chemistry 1	Credits: 3			
CHM 2045L - Chemistry 1 Laboratory	Credits: 1			
EGN 1002 - Introduction to Engineering	Credits: 3			
EGS 2035 - Ethics	Credits: 1			
ENC 1101 - English Composition 1: Expository and Argumentative Writing	Credits: 3			
MAC 2311 - Analytic Geometry and Calculus 1	Credits: 4			

**Total Semester Credits: 15**

**Semester 2**

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 2271C - Introduction to Computation and Programming	Credits: 3			
EGN 1006 - Introduction to Engineering Design	Credits: 1			
ENC 2210 - Technical Writing	Credits: 3			
MAC 2312 - Analytic Geometry and Calculus 2	Credits: 4			
PHY 2048 - Physics 1	Credits: 3			
PHY 2048L - Physics 1 Laboratory	Credits: 1			

**Total Semester Credits: 15**

**Sophomore Year**

**Semester 1**

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 2272C - Computer Programming 1	Credits: 3			
EEL 3111C - Circuits 1	Credits: 4			
MAC 2313 - Analytic Geometry and Calculus 3	Credits: 4			
PHY 2049 - Physics 2	Credits: 3			
PHY 2049L - Physics 2 Laboratory	Credits: 1			

**Total Semester Credits: 15**

**Semester 2**

Course Name	Credits:	Term Taken	Grade	Gen Ed
EEL 3112C - Circuits 2	Credits: 3			
EEL 3702C - Digital Logic Design	Credits: 3			
MAD 2104 - Discrete Mathematics	Credits: 3			
MAP 2302 - Differential Equations	Credits: 3			

**Select 3 credits from the following Humanities General Ed electives:**

Course Name	Credits:	Term Taken	Grade	Gen Ed
ARH 2000 - Art Appreciation	Credits: 3			
PHI 2010 - Introduction to Philosophy	Credits: 3			

**Total Semester Credits: 15**

**Junior Year**

**Semester 1**

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 3530 - Data Structures & Algorithms	Credits: 3			
EEL 3135 - Systems and Signals	Credits: 3			
EGN 3416L - Design 1	Credits: 3			
STA 2023 - Statistics 1	Credits: 3			

**Select 3 credits from the following Social/Behavioral Sciences General Ed electives:**

Course Name	Credits:	Term Taken	Grade	Gen Ed
AMH 2020 - American History Since 1877	Credits: 3			
ECO 2013 - Principles of Macroeconomics	Credits: 3			
ECO 2023 - Principles of Microeconomics	Credits: 3			
PSY 2012 - General Psychology	Credits: 3			

**Total Semester Credits: 15**

**Semester 2**

Course Name	Credits:	Term Taken	Grade	Gen Ed
CNT 3004 - Introduction to Computer Networks	Credits: 3			
EEE 3310 - Digital Electronics	Credits: 3			
EGN 3417L - Design 2	Credits: 3			
EGN 4941 - Internship	Credits: 3			
Concentration Elective Credits: 3				

**Total Semester Credits: 15**

**Senior Year**

**Semester 1**

Course Name	Credits:	Term Taken	Grade	Gen Ed
EGS 3625 - Engineering & Technology Project Management	Credits: 3			
EEE 4351 - Electronic Devices	Credits: 3			
EEE 4510 - Digital Signal Processing	Credits: 3			
EEL 4768C - Computer Architecture and Organization	Credits: 3			
EEL 4794 - Power Aware Design	Credits: 3			

**Total Semester Credits: 15**

**Semester 2**

Course Name	Credits:	Term Taken	Grade	Gen Ed
CDA 4210 - VLSI Design	Credits: 3			
CEN 4010 - Software Engineering	Credits: 3			
EEL 4746C - Microcomputers	Credits: 3			
EGN 4418C - Design 3	Credits: 3			
Concentration Elective Credits: 3				

**Total Semester Credits: 15**

**Computer Engineering Electives**

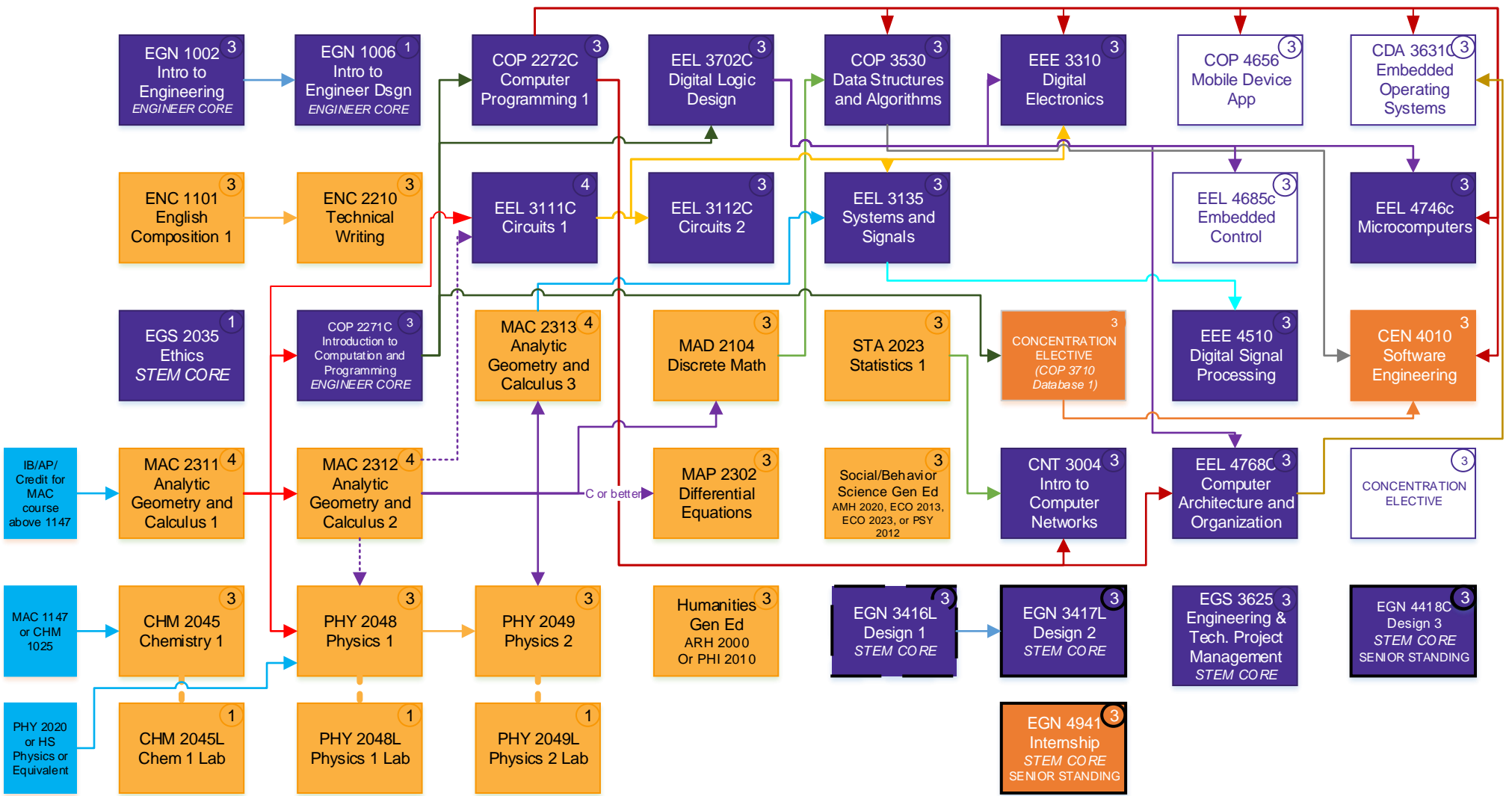
Course Name	Credits:	Term Taken	Grade	Gen Ed
CAP 4730 - Computer Graphics	Credits: 3			
CDA 3631C - Embedded Operating Systems	Credits: 3			
CNT 3200 - Distributed Information Systems	Credits: 3			
COP 3710 - Database 1	Credits: 3			
COP 4520 - Introduction to Parallel and Distributed Computing	Credits: 3			
EEE 4351 - Electronic Devices	Credits: 3			
EEL 4515 - Digital Communication Systems	Credits: 3			
EEL 4301 - Collaborative Digital and Hybrid System Design	Credits: 3			
MAS 2105 - Linear Algebra	Credits: 3			

**Total Program Credits: 120**

# BS in Computer Engineering Embedded System Design

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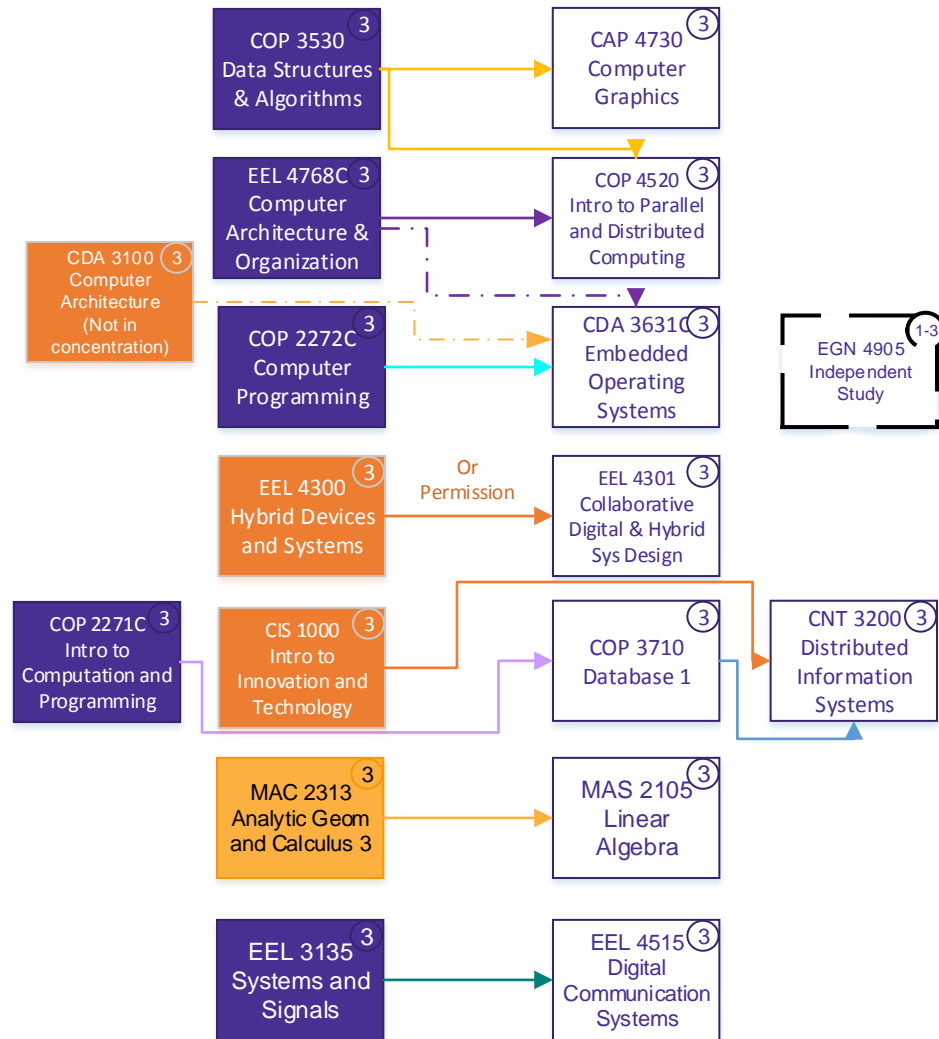
Pre-College	Freshman Year		Sophomore Year		Junior Year		Senior Year	
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2



General Ed	Program Core	Concentration	VP of Academic Affairs Permission Req	Program Director Permission Req	Other Req (outside FLPoly)	CATALOG ISSUE
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Prerequisite  
 Co-requisite  
 Pre-requisite OR Co-Requisite

Program Pre-requisites      Potential Concentration Electives Flow



## Embedded System Design

Total Degree Credits: 120

2016-2017 Catalog

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### Freshman Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
CHM 2045 - Chemistry 1	Credits: 3			
CHM 2045L - Chemistry 1 Laboratory	Credits: 1			
EGN 1002 - Introduction to Engineering	Credits: 3			
EGS 2035 - Ethics	Credits: 1			
ENC 1101 - English Composition 1: Expository and Argumentative Writing	Credits: 3			
MAC 2311 - Analytic Geometry and Calculus 1	Credits: 4			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 2271C - Introduction to Computation and Programming	Credits: 3			
EGN 1006 - Introduction to Engineering Design	Credits: 1			
ENC 2210 - Technical Writing	Credits: 3			
MAC 2312 - Analytic Geometry and Calculus 2	Credits: 4			
PHY 2048 - Physics 1	Credits: 3			
PHY 2048L - Physics 1 Laboratory	Credits: 1			

Total Semester Credits: 15

### Sophomore Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 2272C - Computer Programming 1	Credits: 3			
EEL 3111C - Circuits 1	Credits: 4			
MAC 2313 - Analytic Geometry and Calculus 3	Credits: 4			
PHY 2049 - Physics 2	Credits: 3			
PHY 2049L - Physics 2 Laboratory	Credits: 1			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
EEL 3112C - Circuits 2	Credits: 3			
EEL 3702C - Digital Logic Design	Credits: 3			
MAD 2104 - Discrete Mathematics	Credits: 3			
MAP 2302 - Differential Equations	Credits: 3			

Select 3 credits from the following Humanities General Ed electives:

Course Name	Credits:	Term Taken	Grade	Gen Ed
ARH 2000 - Art Appreciation	Credits: 3			
PHI 2010 - Introduction to Philosophy	Credits: 3			

Total Semester Credits: 15

### Junior Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 3530 - Data Structures & Algorithms	Credits: 3			
EEL 3135 - Systems and Signals	Credits: 3			
EGN 3416L - Design 1	Credits: 3			
STA 2023 - Statistics 1	Credits: 3			

Select 3 credits from the following Social/Behavioral Sciences General Ed electives:

Course Name	Credits:	Term Taken	Grade	Gen Ed
AMH 2020 - American History Since 1877	Credits: 3			
ECO 2013 - Principles of Macroeconomics	Credits: 3			
ECO 2023 - Principles of Microeconomics	Credits: 3			
PSY 2012 - General Psychology	Credits: 3			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
CNT 3004 - Introduction to Computer Networks	Credits: 3			
EGN 3417L - Design 2	Credits: 3			
EGN 4941 - Internship	Credits: 3			
EEE 3310 - Digital Electronics	Credits: 3			
Concentration Elective Credits: 3				

Total Semester Credits: 15

### Senior Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 4656 - Mobile Device Applications	Credits: 3			
EEE 4510 - Digital Signal Processing	Credits: 3			
EEL 4685C - Embedded Control	Credits: 3			
EEL 4768C - Computer Architecture and Organization	Credits: 3			
EGS 3625 - Engineering & Technology Project Management	Credits: 3			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
CDA 3631C - Embedded Operating Systems	Credits: 3			
CEN 4010 - Software Engineering	Credits: 3			
EEL 4746C - Microcomputers	Credits: 3			
EGN 4418C - Design 3	Credits: 3			
Concentration Elective Credits: 3				

Total Semester Credits: 15

### Computer Engineering Electives

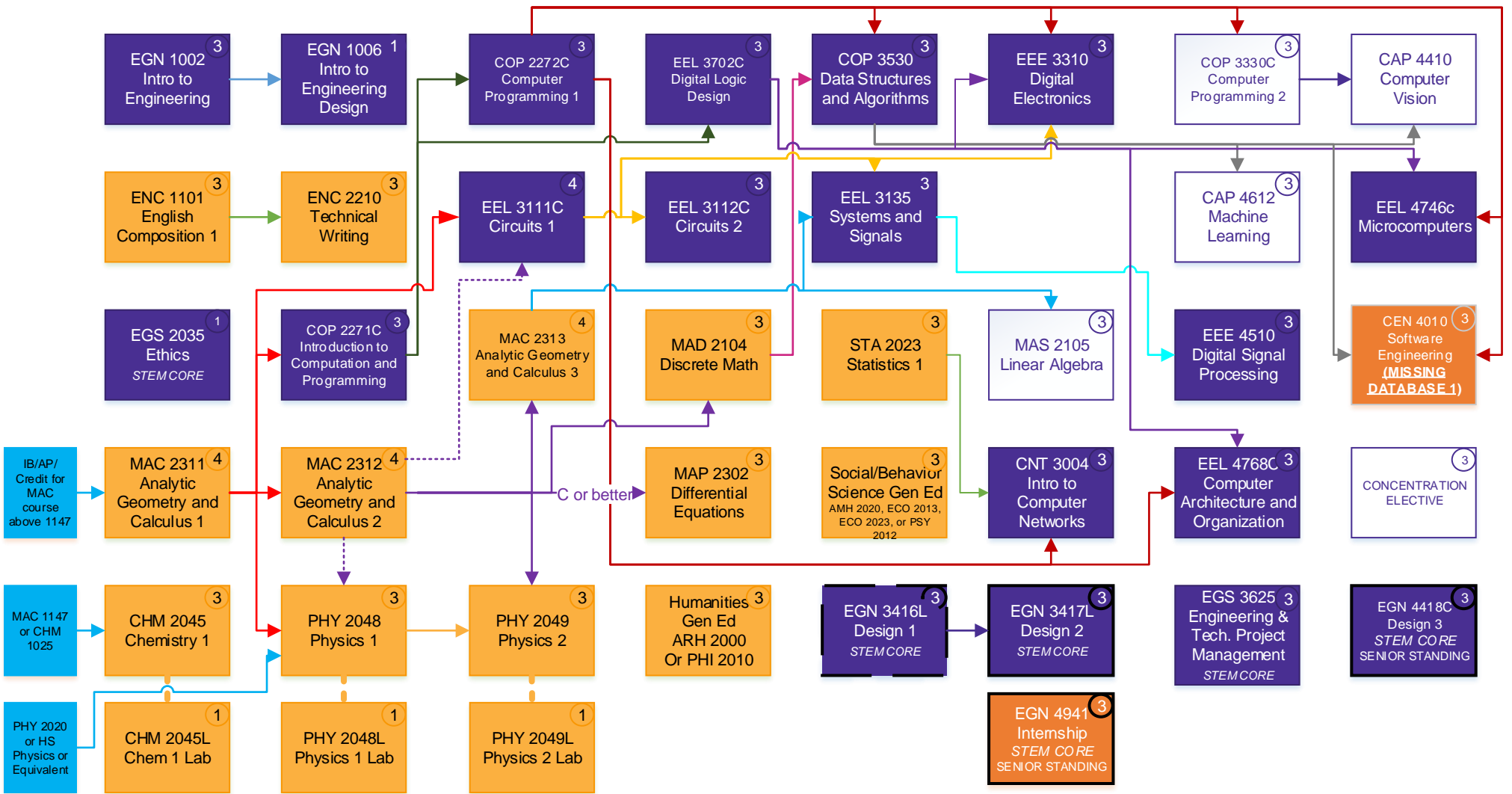
Course Name	Credits:	Term Taken	Grade	Gen Ed
CAP 4730 - Computer Graphics	Credits: 3			
CNT 3200 - Distributed Information Systems	Credits: 3			
EEL 4515 - Digital Communication Systems	Credits: 3			
COP 3710 - Database 1	Credits: 3			
COP 4520 - Introduction to Parallel and Distributed Computing	Credits: 3			
EEL 4301 - Collaborative Digital and Hybrid System Design	Credits: 3			
MAS 2105 - Linear Algebra	Credits: 3			

Total Program Credits: 120

# BS in Computer Engineering Machine Intelligence

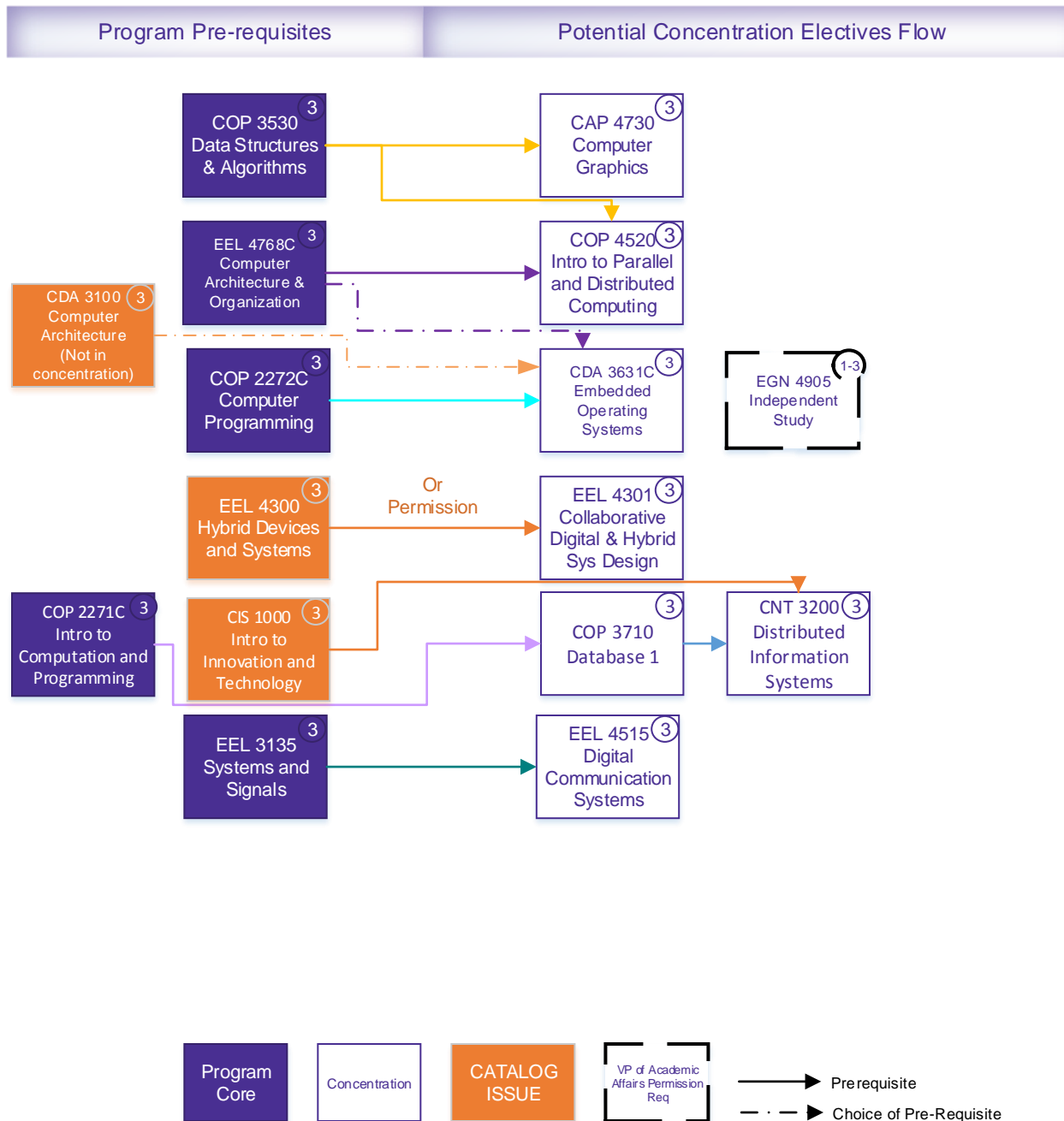
2016-2017 Catalog

Pre-College	Freshman Year		Sophomore Year		Junior Year		Senior Year	
	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2



General Ed	Program Core	Concentration	VP of Academic Affairs Permission Req	Program Director Permission Req	Other Req (outside FLPoly)	CATALOG ISSUE
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→	Prerequisite
- - -	Co-requisite
- - ->	Pre-requisite OR Co-Requisite





## Machine Intelligence

Total Degree Credits: 120

2016-2017 Catalog

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### Freshman Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
CHM 2045 - Chemistry 1	Credits: 3			
CHM 2045L - Chemistry 1 Laboratory	Credits: 1			
EGN 1002 - Introduction to Engineering	Credits: 3			
EGS 2035 - Ethics	Credits: 1			
ENC 1101 - English Composition 1: Expository and Argumentative Writing	Credits: 3			
MAC 2311 - Analytic Geometry and Calculus 1	Credits: 4			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 2271C - Introduction to Computation and Programming	Credits: 3			
EGN 1006 - Introduction to Engineering Design	Credits: 1			
ENC 2210 - Technical Writing	Credits: 3			
MAC 2312 - Analytic Geometry and Calculus 2	Credits: 4			
PHY 2048 - Physics 1	Credits: 3			
PHY 2048L - Physics 1 Laboratory	Credits: 1			

Total Semester Credits: 15

### Sophomore Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 2272C - Computer Programming 1	Credits: 3			
EEL 3111C - Circuits 1	Credits: 4			
MAC 2313 - Analytic Geometry and Calculus 3	Credits: 4			
PHY 2049 - Physics 2	Credits: 3			
PHY 2049L - Physics 2 Laboratory	Credits: 1			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
EEL 3112C - Circuits 2	Credits: 3			
EEL 3702C - Digital Logic Design	Credits: 3			
MAD 2104 - Discrete Mathematics	Credits: 3			
MAP 2302 - Differential Equations	Credits: 3			

Select 3 credits from the following Humanities General Ed electives:

Course Name	Credits:	Term Taken	Grade	Gen Ed
ARH 2000 - Art Appreciation	Credits: 3			
PHI 2010 - Introduction to Philosophy	Credits: 3			

Total Semester Credits: 15

### Junior Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
COP 3530 - Data Structures & Algorithms	Credits: 3			
EEL 3135 - Systems and Signals	Credits: 3			
EGN 3416L - Design 1	Credits: 3			
STA 2023 - Statistics 1	Credits: 3			

Select 3 credits from the following Social/Behavioral Sciences General Education electives:

Course Name	Credits:	Term Taken	Grade	Gen Ed
AMH 2020 - American History Since 1877	Credits: 3			
ECO 2013 - Principles of Macroeconomics	Credits: 3			
ECO 2023 - Principles of Microeconomics	Credits: 3			
PSY 2012 - General Psychology	Credits: 3			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
CNT 3004 - Introduction to Computer Networks	Credits: 3			
EEE 3310 - Digital Electronics	Credits: 3			
EGN 3417L - Design 2	Credits: 3			
EGN 4941 - Internship	Credits: 3			
MAS 2105 - Linear Algebra	Credits: 3			

Total Semester Credits: 15

### Senior Year

#### Semester 1

Course Name	Credits:	Term Taken	Grade	Gen Ed
CAP 4612 - Machine Learning	Credits: 3			
COP 3330C - Computer Programming 2	Credits: 3			
EEE 4510 - Digital Signal Processing	Credits: 3			
EEL 4768C - Computer Architecture and Organization	Credits: 3			
EGS 3625 - Engineering & Technology Project Management	Credits: 3			

Total Semester Credits: 15

#### Semester 2

Course Name	Credits:	Term Taken	Grade	Gen Ed
CAP 4410 - Computer Vision	Credits: 3			
EGN 4418C - Design 3	Credits: 3			
Concentration Elective Credits: 3				
CEN 4010 - Software Engineering	Credits: 3			
EEL 4746C - Microcomputers	Credits: 3			

Total Semester Credits: 15

### Computer Engineering Electives

Course Name	Credits:	Term Taken	Grade	Gen Ed
CAP 4730 - Computer Graphics	Credits: 3			
CDA 3631C - Embedded Operating Systems	Credits: 3			
CNT 3200 - Distributed Information Systems	Credits: 3			
EEL 4515 - Digital Communication Systems	Credits: 3			
COP 3710 - Database 1	Credits: 3			
COP 4520 - Introduction to Parallel and Distributed Computing	Credits: 3			
EEL 4301 - Collaborative Digital and Hybrid System Design	Credits: 3			

Total Program Credits: 120