COMPUTER ENGINEERING (CIEP TRACK B) - CLASS OF 2021

 $***Flagship\ students\ see\ http://web.uri.edu/chineseflagship/academics/\ for\ curriculum\ requirements***$

Freshman Year Fall Semester

Course Code	Description	Cr	
CHM 101	General Chemistry Lec I (A1)	3	
CHM 102	General Chemistry I Lab	1	
ECN 201	Principles of Microeconomics (A2)	3	
EGR 105	Foundations of Engineering I (A4)	1	
MTH 141	Intro Calculus with Analytical Geometry (A1, B3)	4	
CHN 101	Beginning Chinese I	3	
		15	

Freshman Year Spring Semester

Course Code	Description	Cr	
EGR 106	Foundations of Engineering II (A4)	2	
MTH 142	Intermed Calc with Analytic Geom (B3)	4	
PHY 203	Elementary Physics I (A1)	3	
PHY 273	Elementary Physics Lab I (A1)	1	
	General Education Outcome(s)*	3	
CHN 102	Beginning Chinese II	3	
		16	

Sophomore Year Fall Semester

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Course Code	Description	Cr	
ELE 201	Digital Circuits Design	3	
ELE 202	Digital Circuits Design Lab	1	
ELE 208	Intro to Computer Systems	3	
ELE 209	Intro to Computer Systems Lab	1	
MTH 362	Advanced Engineering Mathematics I	3	
PHY 204	Elementary Physics II (A1)	3	
PHY 274	Elementary Physics Lab II (A1)	1	
CHN 103	Intermediate Chinese I	3	
		18	

Sophomore Year Spring Semester

Course Code	Description	Cr	
CSC 211	Intro to Programming and Design	4	
ELE 212	Linear Circuit Theory	4	
ELE 215	Linear Circuits Lab	1	
MTH 243	Calculus for Funcs. of Sev. Vars. (A1, B3)	3	
	General Education Outcome(s)*	3	
CHN 104	Intermediate Chinese II	3	
		18	

Junior Year Fall Semester

Course Code	Description	Cr	
CSC 212	Data Structures and Abstractions	4	
ELE 313	Linear Systems	3	
ELE 338	Electronics I	3	
ELE 339	Electronics I Lab	1	
MTH/CSC 447	Discrete Mathematics Structures	3	
CHN 205	Composition and Conversation	3	
		17	

Junior Year Spring Semester

Julior Tear Spring Semester					
Course Code	Description	Cr			
ELE 301	Electronic Design Automation	3			
ELE 302	Electronic Design Automation Lab	1			
ELE 305	Intro to Computer Architecture	3			
MTH 451	Intro to Probability and Statistics	3			
	General Education Outcome(s)*	3			
	General Education Outcome(s)*	3			
CHN 206	Composition and Conversation	3			
		19			

Semester Abroad

Course Code	Description		
CHN 3XX/4XX		3	
CHN 3XX/4XX		3	
	General Education Outcome(s)*	3	
	General Education Outcome(s)*	3	
		12	

International Internship Semester

Course Code	Description	Cr	
CHN 497/498	Language Study Abroad	3-6	
		3-6	

Senior Year Fall Semester

Course Code	Description	Cr	
ELE 400	Intro to Professional Practice	1	
ELE 405	Digital Computer Design	3	
ELE 406	Digital Computer Design Lab	1	
ELE 437	Computer Communications	3	
ELE 480	Capstone Design I (D1)	3	
	Approved Professional Elective**	3-4	
CHN/EGR 413	Advanced Technical Chinese** (or approved	3-4	
•	professional elective)	17-19	

Senior Year Spring Semester

Course Code	Description	Cr	
ELE 408	Computer Organization	3	
ELE 409	Computer Organization Lab	1	
ELE 481	Capstone Design II	3	
	Approved Professional Elective**	3	
	General Education Outcome(s)*	3	
	General Education Outcome(s)*	3	
CHN 4XX		3	
		19	

Specified Math, Science, and Engineering Courses

Introductory Engineering					
Sem	Course	Cr	Grade	QP	Note
	EGR 105 (A4)	1			
	EGR 106 (A4)	2			
3					

Mathematics					
MTH 141 (A1 & B3)	4				
MTH 142 (B3)	4				
MTH 243 (A1 & B3)	3				
MTH 362	3				
MTH 447 (CSC 447)	3				
MTH 451	3				
	20				

Natural Sciences					
CHM 101 (A1)	3				
CHM 102	1				
PHY 203 (A1)	3				
PHY 273 (A1)	1				
PHY 204 (A1)	3				
PHY 274 (A1)	1				
	12				

Computer Science					
CSC 211	4				
CSC 212	4				
	8				

Sem	Course	Cr	Grade	QP	Note
	ELE 201	3	0.440	Ψ.	
	ELE 202	1			
	ELE 208	3			
	ELE 209	1			
	ELE 212	4			
	ELE 215	1			
	ELE 301	3			
	ELE 302	1			
	ELE 305	3			
	ELE 313	3			
	ELE 338	3			
	ELE 339	1			
	ELE 400	1			
	ELE 405	3			
	ELE 406	1			
	ELE 408	3			
	ELE 409	1			
	ELE 437	3			
	ELE 480 [capstone] (D1)	3			
	ELE 481 [capstone]	3			
		45			

**Professional Elective					
		3			
		3-4			
		3-4			
		9-11			

^{*} General Education Outcomes: at least 40 credits must be completed. (A1-D1) must be met by at least three credits. A single course may satisfy one or two outcomes, and at least one course must be a "Grand Challenge". No more than twelve credits can be from the same course code except HPR. General education courses may also by used to meet requirements of your major(s) or minor(s) when appropriate.

**Professional Electives: Three (3) courses from the following: BME/ELE 461, BME464/465; CSC 301, 305, 402, 406, 412, 415, 436, 481; CSF 410, 412; any ELE 300- or 400- level course not required by the CPE

major; with prior approval of the ECBE department chairperson, any ELE 500-level course.

Sem	Course	Cr	Gr	QP
Six (6) cred	lits in Chinese Lit credits r	erature and Cir		ast 3 of these
	CHN	3		
	CHN 4	3		
18	3 Credits of CHN	electives to rea	ach 30 major cr	edits
	CHN	3		
	(6) credits in Chi n: HIS 171, 374; F	-	• • • • • • • • • • • • • • • • • • • •	
		3 or 4		
CHN 101,	102, and 111 will least 6 CHN cre			

* PSC 116 approved for general education credit

General Education Outcome Audit					
	Course	Credit			
Knowledge					
A1. STEM	CHM & PHY (see above)	11			
A2. Social & Behavioral Sciences	ECN 201				
A3. Humanities	CHN 205/206 (suggested)	3			
A4. Arts & Design	EGR 105 & 106	3			
Competences					
B1. Write Effectively					
B2. Communicate Effectively					
computational stategies	MTH (see above)	11			
B4. Information literacy					
Responsibilities					
C1. Civic knowledge & responsibi					
C2. Global responsibilities	CHN 205/206 (suggested)				
C3. Diversity and Inclusion					
Inegrate & Apply					
D1. Ability to synthesize	ELE 480	3			
Grand Challenge					
G. Check that at least one course of your 40 credits is an approved "G" course					
Total General Education Outcome Credits					