



UTRGV - COMPUTER SCIENCE (2018-2020) CHECKLIST

MAJOR: COMPUTER SCIENCE CORE 32 hrs			
Course	Hours	Check	
CSCI1101	Intro to Computer Science	1	<input type="checkbox"/>
CSCI1370	Engr Computer Science I	3	<input type="checkbox"/>
CSCI1170	Engr Computer Science Lab	1	<input type="checkbox"/>
CSCI2333	Comp. Org. and Assembly Lang.	3	<input type="checkbox"/>
CSCI2344	Prog. In Unix/Linux Envir.	3	<input type="checkbox"/>
CSCI2380	Computer Science II	3	<input type="checkbox"/>
CSCI3310	Mathematical Found Of Comp Sci	3	<input type="checkbox"/>
CSCI3333	Algorithms & Data Structures	3	<input type="checkbox"/>
CSCI3336	Organization of Prog. Lang.	3	<input type="checkbox"/>
CSCI3340	Software Engineering I	3	<input type="checkbox"/>
CSCI4325	Automata, Formal Lang. & Comp.	3	<input type="checkbox"/>
CSCI4390	Senior Project	3	<input type="checkbox"/>

PROGRAMMING LANG COURSES 3 hrs			
Course	Hours	Check	
CSCI3326 or	OOP Java	3	<input type="checkbox"/>
CSCI3328 or	OOP C#	3	<input type="checkbox"/>
CSCI4341	Topics in CS: Python	3	<input type="checkbox"/>

DATABASES, NETWORKING, OS 6 hrs			
Course	Hours	Check	
CSCI4333	Database Design and Impl	3	<input type="checkbox"/>
CSCI4334	Operating Systems	3	<input type="checkbox"/>
CSCI4335	Computer Architecture	3	<input type="checkbox"/>
CSCI4345	Computer Networks	3	<input type="checkbox"/>

ORAL & WRITTEN COMM 3 hrs			
Course	Hours	Check	
ENGL 3342	Technical Communication	3	<input type="checkbox"/>

MATH, ENGINEERING & SCIENCE 22 hrs			
Course	Hours	Check	
ELEE 2130	Digital Systems Engineering I Lab	1	<input type="checkbox"/>
ELEE 2330	Digital Systems Engineering I	3	<input type="checkbox"/>
MATH 2318	Linear Algebra	3	<input type="checkbox"/>
MATH 2413	Calculus I	4	<input type="checkbox"/>
MATH 2414	Calculus II	4	<input type="checkbox"/>
Choose 1 Sci option not completed for Gen core		4	<input type="checkbox"/>
STAT 3337 or	Probability and Statistics	3	<input type="checkbox"/>
MATH 4337 or	Probability and Statistics I	3	<input type="checkbox"/>
ELEE 3340 or	Prob and Stat for Elect Engineers	3	<input type="checkbox"/>
STAT 3301	Applied Stat for Sci, Eng & Med Sc	3	<input type="checkbox"/>

FREE ELECTIVES 11 hrs			
Course	Hours	Check	
Non-Advanced Any course	5	<input type="checkbox"/>	
Advanced Elective - Any course 3000 or higher	3	<input type="checkbox"/>	
Advanced Elective - Any course 3000 or higher	3	<input type="checkbox"/>	

NOT IN DEGREE PLAN - TAKE AS NECESSARY			
Course	Hours	Check	
ANY	Foreign Language or Exam	3	<input type="checkbox"/>
ANY	Foreign Language or Exam	3	<input type="checkbox"/>
UNIV 1301	Learning Framework (if required)	3	<input type="checkbox"/>
MATH 1314 or 1414	College Algebra	3 or 4	<input type="checkbox"/>
MATH 2412	Pre - Calculus	4	<input type="checkbox"/>

TECHNICAL ELECTIVES 9 HRS			
Course	Hours	Check	
CSCI3300	Internship in Comp Science	3	<input type="checkbox"/>
CSCI3334	Systems Programming	3	<input type="checkbox"/>
CSCI3341	Software Engineering II	3	<input type="checkbox"/>
CSCI3342	Internet Programming	3	<input type="checkbox"/>
CSCI3350	Numerical Methods	3	<input type="checkbox"/>
CSCI3370	Int to Game Development	3	<input type="checkbox"/>
CSCI4185	Res Sem (can repeat up to 3 times)	1	<input type="checkbox"/>
CSCI4301	Digital Image Processing	3	<input type="checkbox"/>
CSCI4302	Multimedia Systems	3	<input type="checkbox"/>
CSCI4303	Computer Vision	3	<input type="checkbox"/>
CSCI4310	Design and Analysis of Alg	3	<input type="checkbox"/>
CSCI4318	Cyber Security	3	<input type="checkbox"/>
CSCI4319	Digital Forensics	3	<input type="checkbox"/>
CSCI4321	E-Commerce	3	<input type="checkbox"/>
CSCI4327	Compiler Construction	3	<input type="checkbox"/>
CSCI4336	Parallel and Distr Computing	3	<input type="checkbox"/>
CSCI4341	Topics in Computer Science	3	<input type="checkbox"/>
CSCI4343	Data Mining	3	<input type="checkbox"/>
CSCI4344	Bioinformatics	3	<input type="checkbox"/>
CSCI4350	Artificial Intelligence	3	<input type="checkbox"/>
CSCI4352	Machine Learning	3	<input type="checkbox"/>
CSCI4355	Expert Systems	3	<input type="checkbox"/>
CSCI4360	Computer Graphics and Int Sys	3	<input type="checkbox"/>
CSCI4363	Advanced Databases	3	<input type="checkbox"/>
CSCI4365	Computer and Network Security	3	<input type="checkbox"/>
CSCI4370	Advanced Game Development	3	<input type="checkbox"/>
CSCI4381	Interactive Sys & User Interface I	3	<input type="checkbox"/>
CSCI4382	Computer Visualization	3	<input type="checkbox"/>
CSCI4383	Bioinformatics Imaging	3	<input type="checkbox"/>

GENERAL EDUCATION CORE 38 hrs			
Courses	Hours	Check	
ENGL 1301	Rhetoric & Composition I	3	<input type="checkbox"/>
ENGL 1302	Rhetoric & Composition II	3	<input type="checkbox"/>
HIST 1301	U.S. History I	3	<input type="checkbox"/>
HIST 1302	U.S. History II	3	<input type="checkbox"/>
POLS 2301	U.S. & Texas Government I	3	<input type="checkbox"/>
POLS 2302	U.S. & Texas Government II	3	<input type="checkbox"/>
PHIL 2326	Ethics, Technology and Society	3	<input type="checkbox"/>
COMM 1315	Public Speaking	3	<input type="checkbox"/>
ANY	*Creative Arts*	3	<input type="checkbox"/>
ANY	*Social & Behavioral Sciences*	3	<input type="checkbox"/>

CHOOSE ONE PAIR OF THE FOLLOWING SCIENCE OPTIONS:

BIOL 1406	General Biology I	4	<input type="checkbox"/>
BIOL 1407	General Biology II	4	<input type="checkbox"/>
OR			
BIOL 2401	Anatomy and Physiology I	4	<input type="checkbox"/>
BIOL 2402	Anatomy and Physiology II	4	<input type="checkbox"/>
OR			
CHEM 1311(LEC) & CHEM 1111(LAB) Gen Chem		4	<input type="checkbox"/>
CHEM 1312(LEC) & CHEM 1112(LAB) Gen Chem		4	<input type="checkbox"/>
OR			
CHEM 1307(LEC) & CHEM 1107(LAB) Chem Eng		4	<input type="checkbox"/>
CHEM 1312(LEC) & CHEM 1112(LAB) Gen Chem		4	<input type="checkbox"/>
OR			
PHYS 1401	General Physics I	4	<input type="checkbox"/>
PHYS 1402	General Physics II	4	<input type="checkbox"/>
OR			
PHYS 2425	Physics for Scientists and Eng I	4	<input type="checkbox"/>
PHYS 2426	Physics for Scientists and Eng II	4	<input type="checkbox"/>

ADVISING NOTES

Prerequisites	Refer to BSCS pre-requisite flow chart
Course Calendar	Find out when specific courses are offered
Total Hours	You must have 124 hours total
Advanced Hrs	You must have 48 advanced hours