Walter Tracey

Miami University

4-year Computer Science Bachelor of Science plan

Minimum credit hours: 128

AP credit: calc (5), chem (10), phys Algebra (3), Eng (6); already took CSE 174, 271 (6)

Freshman year, sem 1

Course num	Course name	Class type	Credit	Prereq.	Alt.
ECO 202	Prin. Of Macroeconomics	Core	3 Hours	Use Calc I	ECO 201
ENG 313	Technical Writing	Core	3 Hours		
STC 135	Prin. Of Public Speaking	Core	3 Hours		STC 231
MTH 231	Elem. Discrete Math	Core	3 Hours	Calc I	MTH 331
STA 301	Applied Statistics	Core	3 Hours	Calc I or II	STA 401/501
			15 Hours		

Freshman year, sem 2

Course num	Course name	Class type	Credit	Prereq.	
MTH 249	Calculus II	Core	5 Hours	Calc I (AP)	
BIO 116	Molec. Bio concepts	Core	4 Hours		Miami bio ---
CEC 101	Computing, Eng, Society	Major	1 Hour		
CSE 102	Intro to Computing + Eng.	Major	3 Hours		
CSE 201	Intro to Software Eng.	Major	3 Hours	CSE 271 (done)	
			16 Hours		

Sophomore year, sem 1

Course num	Course name	Class type	Credit	Prereq.	Elective Hrs.
CSE 262	Tech, ethics, global society	Major	3 Hours	(AP Eng), 20 credits	
CSE 274	Data structures	Major	3 Hours	CSE 271 (done)	
CSE 278	Computer architecture	Major	3 Hours	CSE 271 (done)	
CSE 283	Data comms/networks	Major	3 Hours	CSE 271 (done)	
CSE 287	Found. Graphics/games	Maj. Elective	3 Hours	CSE 271	3 Hours
			15 Hours		

Sophomore year, sem 2

Course num	Course name	Class type	Credit	Prereq.	Elective Hrs.
CSE 381	Operating systems	Major	3 Hours	274, 278	
CSE 385	Database systems	Major	3 Hours	274	
CSE 464	Algorithms	Major	3 Hours	274, MTH 231	
CSE 465	Comparative pro. Lang.	Major	3 Hours	274	
CSE 486	Intro to AI	Major	3 Hours	274, MTH 231	
			15 Hours		

Junior year, sem 1

Course num	Course name	Class type	Credit	Prereq.	Elective Hrs.
CSE 387	Game Engine Design	Maj. Elective	3 Hours	CSE 287	3 Hours
CSE 443	Parallel programming	Maj. Elective	3 Hours	CSE 278	3 Hours

Course num	Course name	Class type	Credit	Prereq.	Elective Hrs.
PHY 191	Gen. Phys. w/ Lab I	Elective	5 Hours	Calc I	
CSE 241	Comp. model, sims	Maj. Elective	3 Hours	Calc I	3 Hours
			14 Hours		

Junior year, sem 2

Course num	Course name	Class type	Credit	Prereq.	Elective Hrs.
CSE 448	Senior des. Proj.	Major	2 Hours	271, 201, Senior	
CSE 449	Senior des. Proj.	Major	2 Hours	CSE 448	
ECE 287	Digital systems design	Maj. Elective	4 Hours		4 Hours
MTH 252	Calculus III	Elective	4 Hours	Calc II	
PHY 192	Gen. Phys. w/ Lab II	Elective	5 Hours	Phys 191, Coreq. Calc II	
			17 Hours		

Senior year, sem 1

Course num	Course name	Class type	Credit	Prereq.	Elective Hrs.
ARB 101	Elemen. Arabic I	Elective	4 Hours		
PHY 286	Intro to Comp. Physics	Elective	3 Hours		
			7 Hours		

Total Hours:	129/128
Major elective hours:	16/15