

Computer Science Suggested Plan

Track A: Students must test out of CS 1030 and be Calculus-ready for Track A.

	Fall Semester	credits	Spring Semester	credits
Freshman (28 credits)	CS 1410 Object Or Prog. Math 1210 Calc I General Ed General Ed	4 4 3 3	CS 2420 Data Str/ Algrthm Math 1220 Calc II Wrtg 2010 Writing General Ed	4 4 3 3
Sophomore (31 credits)	CS 2100 Discrete CS 3500 Software Prac. I CS 3130 Eng Prob & Stats American Institutions (AI) General Ed	3 4 3 3 3	CS 3505 Software Prac. II CS 3810 Comp. Org. CS elective Math 2270 Linear Algebra	3 4 3 4
Junior (33 credits)	CS 4400 Comp. Systems CS Theory or CS elective CS elective Math/ Science elective Wrtg 3012, 3014 or 3015	4 3 3 4 3	CS 4150 Algorithms CS Theory or CS elective CS elective (IR)/ Upper Division Phys 2210 Physics I	3 3 3 3 4
Senior (30 credits) 122 total credits	CS 4000 or CS 4940 CS elective CS elective General Ed/ Upper Division (Free elective if needed)	3 3 3 3 3	CS 4500 or CS 4970 CS elective Math/Science Elective General Ed/ (DV) (Free elective if needed)	3 3 4 3 2

Track B: Students who test into CS 1030 and/ or may not be Calculus-ready in the fall will follow Track B.

	Fall Semester	credits	Spring Semester	credits
Freshman (28 credits)	*CS 1030 Foundations of CS **Math 1080 Pre-calc American Institutions (AI) General Ed	3 5 3 3	CS 1410 Object Or Prog. Math 1210 Calc I General Ed General Ed/ (DV)	4 4 3 3
Sophomore (28 credits)	CS 2420 Data Str/ Algrthm Math 1220 Calc II Wrtg 2010 Writing General Ed	4 4 3 3	CS 2100 Discrete CS 3500 Software Prac. I CS 3130 Eng Prob & Stats Wrtg 3012, 3014 or 3015	3 4 3 3
Junior (28 credits)	CS 3505 Software Prac. II CS 3810 Comp. Org. CS elective Math 2270 Linear Algebra	3 4 3 4	CS 4400 Comp. Systems CS elective CS elective Math/ Science elective	4 3 3 4
Senior (25 credits)	CS 4150 Algorithms CS Theory or CS elective CS elective Phys 2210 Physics I	3 3 3 4	CS 4000 or CS 4940 CS Theory or CS elective CS elective Gen Ed/ (IR)/ Upper Division	3 3 3 3
5th-Year (13 credits) 122 total credits	CS 4500 or CS 4970 CS elective General Ed/ Upper Division Math/ Science elective	3 3 3 4		

* If you test out of CS 1030, but are not Calc or pre-Calc ready, follow Track B. Replace CS 1030 with another gen ed in your first semester. **If needed. Replace with your first level of math.

Choose CS 3100 (fall) or CS 3200 (spring) as the required theory course. Students are encouraged to take summer courses to ease the fall & spring semester schedule. See advisor for alternative schedule.

Computer Science HONORS Plan

Track A: Students must test out of CS 1030 and be Calculus-ready for Track A.

	Fall Semester			Spring Semester		
Freshman (28 credits)	CS 1410 Math 1210* General Ed* General Ed*	Object Or Prog. Calc I	4 4 3 3	CS 2420 Math 1220* Wrtg 2010* General Ed*	Data Str/ Algrthm Calc II Writing	4 4 3 3
Sophomore (30 credits)	CS 3500 CS 3810 CS 3130 American Institutions (AI)* General Ed*	Software Prac. I Comp. Org. Eng Prob & Stats	4 4 4 3 3	CS 2100 CS 3505 CS elective General Ed/ Upper Division*	Discrete Software Prac. II	3 3 3 3
Junior (33 credits)	CS 4400 CS elective CS elective Math 2270 (IR)/ Upper Division *	Comp. Systems	4 3 3 4 3	CS Theory or CS elective CS 4150 Algorithms CS elective Wrtg 3012/3014/3015 (CW)* Phys 2210* Physics I		3 3 3 3 4
Senior (31 credits) 122 total credits	CS 4000 or CS 4940 CS Theory or CS elective CS Elective Math/ Science elective (Free elective if needed)		3 3 3 4 3	(CS 4500 + CS 4998) or CS 4999 CS elective Math/ Science elective General Ed/ (DV)* (Free elective if needed)		4 or 3 3 4 3 2

Track B: Students who test into CS 1030 and/ or may not be Calculus-ready in the fall will follow Track B.

	Fall Semester			Spring Semester		
Freshman (30 credits)	+CS 1030 ++Math 1210 * General Ed* General Ed*	Foundations of CS Calc I	3 4 3 3	CS 1410 Math 1220* Wrtg 2010* General Ed* General Ed/ (DV)*	Object Or Prog. Calc II Writing	4 4 3 3 3
Sophomore (32 credits)	CS 2420 Math/ Science elective Phys 2210* American Institutions (AI)*	Data Str/ Algrthm Physics I	4 4 4 3	CS 3500 CS 3810 CS elective CS 3130 Wrtg 3012/3014/3015(CW)*	Software Prac. I Comp. Org.	4 4 3 3 3
Junior (32 credits)	CS 2100 CS 3505 Math 2270 CS elective Gen Ed/ (IR)/ Upper Division*	Discrete Software Prac. II Linear Algebra	3 3 4 3 3	CS 4150 Algorithms CS elective CS elective Math/ Science elective (Free elective if needed)		3 3 3 4 3
Senior (28 credits) 122 total credits	CS 4000 or CS 4940 CS Theory or CS elective CS 4400 Comp. Systems CS elective		3 3 4 3	(CS 4500 + CS 4998) or CS 4999 CS Theory or CS elective CS elective General Ed/ Upper Division* (Free elective if needed)		4 or 3 3 3 3 2

*Honors options available. See Honors Advisor for requirements.

[†]If you test out of CS 1030, but are not Calculus-ready, follow Track B. Replace CS 1030 with another gen ed in your first semester.

^{**}Replace Calc I with your first level of math.

Choose CS 3100 (fall) or CS 3200 (spring) as the required theory course. Students are encouraged to take summer courses to ease the fall & spring semester schedule. See advisor for alternative schedule.

Computer Science EAE Plan

Track A: Students must test out of CS 1030 and be Calculus-ready for Track A.

	Fall Semester	Spring Semester
Freshman (31 credits)	CS 1410 Object Or Prog. 4 Math 1210 Calc I 4 Art 1020 Basic Drawing 3 General Ed 3	CS 2420 Data Str/ Algrthm 4 Math 1220 Calc II 4 Wrtg 2010 Writing 3 Film 2700 Video Games 3 American Institutions (AI) 3
Sophomore (27 credits)	EAE 3600 3D Modeling 3 CS 2100 Discrete 3 CS 3500 Software Prac. I 4 Math/ Science elective 4	EAE 3660 Machinima 3 CS 3505 Software Prac. II 3 CS 3810 Comp. Org. 4 FA 3600 Wrtg New Media 3
Junior (34 credits)	CS Theory or CS elective 3 CS 4400 Comp. Systems 4 CS 3130 Eng Prob Stats 3 FILM 3500 Film Production 4 FILM 3610 or 3710 4	CS 4150 Algorithms 3 CS 5530 Database 3 CS Theory or CS elective 3 FILM 3620 or 3720 4 General Ed/ (DV) 3
Senior (33 credits) 125 total credits	EAE 4500 Senior Project I 3 CS 4300 Artif. Intelligence 3 Math/ Science elective 4 General Ed/ (IR)/ Upper Division 3 General Ed 3	EAE 4510 Senior Project II 3 CS elective 3 CS 5460 or CS 5470 4 Phys 2210 Physics I 4 General Ed/ Upper Division 3

Track B: Students who test into CS 1030 and/ or may not be Calculus-ready in the fall will follow Track B.

	Fall Semester	Spring Semester
Freshman (31 credits)	*CS 1030 Foundations of CS 3 **Math 1080 Pre-calc 5 Art 1020 Basic Drawing 3 General Ed 3	CS 1410 Object Or Prog. 4 Math 1210 Calc I 4 Wrtg 2010 Writing 3 Film 2700 Video Games 3 General Ed 3
Sophomore (28 credits)	CS 2420 Data Str/ Algrthm 4 Math 1220 Calc II 4 EAE 3600 3D Modeling 3 FILM 3500 Film Production 4	EAE 3660 Machinima 3 CS 2100 Discrete Structures 3 CS 3500 Software Prac. I 4 American Institutions (AI) 3
Junior (34 credits)	CS 3505 Software Prac. II 3 CS 3810 Comp. Org. 4 CS Theory or CS elective 3 Math/ Science elective 4 FILM 3610 or 3710 4	CS 4150 Algorithms 3 CS 5530 Database 3 FA 3600 Wrtg New Media 3 CS Theory or CS elective 3 FILM 3620 or 3720 4
Senior (27 credits)	EAE 4500 Senior Project I 3 CS 4400 Comp. Systems 4 General Ed/ (DV) 3 Phys 2210 Physics I 4	EAE 4510 Senior Project II 3 CS 5460 or CS 5470 4 CS 3130 Eng Prob Stats 3 General Ed/ Upper Division 3
5th-Year (13 credits) 133 total credits	CS 4300 Artif. Intelligence 3 CS elective 3 General Ed/ (IR)/ Upper Division 3 Math/ Science elective 4	* If you test out of CS 1030, but are not Calculus-ready, follow Track B. Replace CS 1030 with another gen ed in your first semester. **If needed. Replace with your first level of math.

Choose CS 3100 (fall) or CS 3200 (spring) as the required theory course. Students are encouraged to take summer courses to ease the fall & spring semester schedule. See advisor for alternative schedule.

Computer Science Games/EAE HONORS Plan

Track A: Students must test out of CS 1030 and be Calculus-ready for Track A.

	Fall Semester			Spring Semester		
Freshman (31 credits)	CS 1410	Object Or Prog.	4	CS 2420	Data Str/ Algrthm	4
	Math 1210*	Calc I	4	Math 1220*	Calc II	4
	General Ed*		3	Wrtg 2010*	Writing	3
	EAE 1050	Digital Con Cr	3	EAE 3010	Asset Pipeline	3
				American Institutions (AI)*		3
Sophomore (32 credits)	EAE 2100	Intro to Game Des	3	ART 1020	Basic Drawing	3
	DES 2615	Intro Des Think	3	CS 2100	Discrete	3
	CS 3500	Software Prac. I	4	CS 3505	Software Prac. II	3
	CS 3810	Comp. Org.	4	EAE 3660	Machinima	3
	CS 3130	Eng Prob & stats	3	FA 3600 or Wrtg 4030(CW)*		3
Junior (32 credits)	CS Theory or CS focus elective		3	CS 4150	Algorithms	3
	CS 4400	Comp. Systems	4	CS focus elective		3
	Math 2270	Linear Algebra	4	CS focus elective		3
	EAE 3710	Trad Game Dev	3	EAE 3720	Ser Game Dev	3
	CS focus elective		3	General Ed/ (DV)*		3
Senior (30 credits)	EAE 4500	Senior Project I	3	EAE 4510	Senior Project II	3
	CS focus elective		3	CS 4998	Honors Thesis	1
	Math/Science elective		4	CS Theory or CS focus elective		3
	General Ed/ (IR)/ Upper Division*		3	CS focus elective		3
125 total credits	General Ed/Upper Division*		3	Phys 2210*	Physics I	4

Track B: Students who test into CS 1030 and/ or may not be Calculus-ready in the fall will follow Track B.

	Fall Semester			Spring Semester		
Freshman (33 credits)	*CS 1030	Foundations of CS	3	CS 1410	Object Or Prog.	4
	Math 1210	Calc I	4	Math 1220*	Calc II	4
	General Ed*		3	Wrtg 2010*	Writing	3
	General Ed*		3	EAE 3010	Asset Pipeline	3
	EAE 1050	Digital Con Cr	3	American Institutions (AI)*		3
Sophomore (34 credits)	CS 2420	Data Str/ Algrthm	4	EAE 3660	Machinima	3
	DES 2615	Intro Des Think	3	CS 3500	Software Prac. I	4
	CS 2100	Discrete Structures	3	CS 3810	Comp. Org.	4
	Math/ Science elective		4	FA 3600 or Wrtg 4030(CW)*		3
	EAE 2100	Intro to Game Design	3	ART 1020	Basic Drawing	3
Junior (31 credits)	CS 3505	Software Prac. II	3	CS 4150	Algorithms	3
	CS 3130	Eng Prob Stats	3	CS focus elective		3
	CS Theory or CS focus elective		3	CS Theory or CS focus elective		3
	Math 2270	Linear Alegebra	4	EAE 3720	Ser Game Dev	3
	EAE 3710	Trad Game Dev	3	CS focus elective		3
Senior (30 credits)	EAE 4500	Senior Project I	3	EAE 4510	Senior Project II	3
	CS 4400	Comp. Systems	4	CS 4998	Honors Thesis	1
	CS focus elective		3	CS focus elective		3
	Phys 2210*	Physics I	4	CS focus elective		3
128 total credits	General Ed/Upper Division/IR*		3	General Ed/ DV*		3

*Honors options available. See Honors Advisor for requirements.

+ If you test out of CS 1030, but are not Calculus-ready, follow Track B. Replace CS 1030 with another gen ed in your first semester.

**Replace Calc I with your first level of math.

Choose CS 3100 (fall) or CS 3200 (spring) as the required theory course. Students are encouraged to take summer courses to ease the fall & spring semester schedule. See advisor for alternative schedule.