

# 4-year Degree Plan

## BS in Computer Science

### Computer Science Cybersecurity Certificate:

<b>Semester 1 - Fall</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS1181	3	Intro to Computer Science I	C-	Math1143 or equiv.		F.S
Math1144	3	Trigonometry	C-	Math1143 or equiv.		F.S
Engl1101	3	English Composition		Test score or equiv.		F.S
Gen Ed	4	Objective 5 Science + Lab		Test score or equiv.		F.S
Gen Ed	3	Objective 6				
	<b>16</b>					
<b>Semester 2 - Spring</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS1337	3	Computer Org and Arch	C-	(Math1144/1147) CS1181		F.S
CS2235	3	Data Structures Algorithms	C-	(Math1144/1147) CS1181		F.S
Math1170	3	Calculus I	C-	Math1144/1147 or equiv.		F.S
Math1187/2287	3	Discrete Math	C-	CS1181		F.S
Eng1102	3	English Composition II		Eng1101 or equiv.		F.S
	<b>15</b>					
<b>Semester 3 - Fall</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS3309	3	Adv. Object-Oriented Prog.	C-	CS1337 CS2235 (Math1144/1147)		F.S
CS3310	3	Databases	C-	CS1337 CS2235 (Math1144/1147)		F
CS3311	3	Secure Client-Server Web	C-	CS1337 CS2235 (Math1144/1147)	CS 3310	F
CS4416	3	Cybersec & Resilience	C-	CS1337 CS2235 (Math1144/1147)		F
Math1175	3	Calculus II	C-	Math1170		F.S
	<b>15</b>					
<b>Semester 4 - Spring</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS4417	3	Cybersec Threat Intelligence	C-	CS4416 CS3309 CS1337		S
CS4461	3	Secure Operating Systems	C-	CS1337 CS3309 (Math1144/1147)		S
Math2240	3	Linear Algebra	C-	Math1170		F.S
CS3321	3	Intro Software Engineering	C-	CS1337 CS3309 (Math1144/1147)	CS 3310	S
Eng3307/8	3	Technical Writing	C-	Eng1102		F.S
	<b>15</b>					
<b>Semester 5 - Fall</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS3305	3	Intro Computational Theory	C-	Math1170 CS1181 Math1187/2287		F
CS3337	3	Secure Svstems Networks	C-	CS1337 CS2235 (Math1144/1147)		F
Gen Ed	3	Objective 4				F.S
Gen Ed	3	Objective 6				
Elective	3					
	<b>15</b>					
<b>Semester 6 - Spring</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
Math 3352	3	Intro to Probability	C-	Math1175		F.S
Physics 2211	4	Engineering Physics	C-	Math1170		F.S
Gen Ed	3	Objective 4				
Gen Ed	3	Objective 9				
Elective	3					
	<b>16</b>					
<b>Semester 7 - Fall</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS4412	3	Advanced Algorithms	C-	CS1337 Math2240 CS3309 CS3305 Math1175		F
CS 44xx	3	BSCS elective	C-			F.S
Gen Ed	3	Objective 2				F.S
Elective	3					
Elective	3					
	<b>15</b>					
<b>Semester 6 - Spring</b>						
<b>Course</b>	<b>Credits</b>	<b>Title</b>	<b>MinGrade</b>	<b>Prerequisites</b>	<b>PreCoReq</b>	<b>Sem</b>
CS4488	3	Capstone Project	C-	CS3310 CS3321 CS 4412	CS3337	S
CS4476	3	Intro to Compilers	C-	Math1170 Math1187/2287 CS1337 CS2235 CS3305		S
Elective	3-4					
Elective	3					
Elective	3					
	<b>15</b>					