HCCC | **Saint Peter's**

AS - Computer Science | **BS- Computer Science- AI/ Machine Learning track**

Complete the Following Gen Ed Requirements

COURSE NUMBER	COURSE NAME	CREDITS	=	COURSE NUMBER	COURSE NAME	CREDITS
CSS-100	College Student Success	1	=	FY-100	First Year Seminar	3
ENG-101	College Composition I	3	=	CM-101	English Composition I	3
ENG-102	College Composition II	3	=	CM-102	English Composition II	3
MAT-111	Calculus I	4	=	MA-143	Differential Calculus	4
MAT-112	Calculus II	4	=	MA-144	Integral Calculus	4
MAT-211	Calculus III	4	=	MA-273	Multivariable Calculus I	4
ENG-112	Speech	3	=	CU-277	Strategies for Oral Communication	3
PHY-111	Engineering Physics	4	=	PC-185	General Physics I	3
	Humanities Elective (recommend HUM-101)	3	=	CORE 2.2	TBD	3
	Social Science Elective (recommend SOC-101)	3	=	CORE 2.2	TBD	3
	Humanities or Social Sci Elective (recommend Humanities)	3	=	CORE 2.1 or 2.2	TBD	3
Complete the Following Major Requirements						
CSC-113	Computer Logic and Discrete Math	3	=	MA-216	Computer Mathematics	3
CSC-115	Programming in C++ for Comp Sci	3	=	CS-231	Software Engineering	3
CSC-214	Data Structures and Adv. Program	3	=	CS-370	Data Structures	3
Choose CSC-118 or CSC-117						
CSC-118	Python Programming (recommend)	3	=	CS-180	Introduction to Programming*	3
CSC-117	Java Programming	3	=	CS-237	Java Programming	3
Complete One Math Or Science Course Recommend Statistics MAT-114		4	=	TBD	Recommend MA-212	3
Complete HCCC Elective (select 3)						
CSC-226	Database Design and Concepts	3	=	IS-380	Database & Data Administration	3
CSC-227	Intro to Operating Systems	3	=	CS-339	Comp Arch & Operating Sys*	3
CSC-231	Info Systems Analysis & Design	3	=	IS-410	Total Info Systems	3
CSC-232	Cybersecurity	3	=	CS-177	Intro to Comp Sci and Cybersecurity*	3

CSC-235	Network Security	3	=	CS-489	Network Tech, Protocols, Defense	3
CSC-240	Intro to Networks and Networking	3	=	CS-489	Network Tech, Protocols, Defense	3
CSC-242	Comp Forensics and Investigation	3	=	CS-496	CyberSecurity and Digital Forensics	3
CSC-245	Ethical Hacking	3	=	CS-260	Information Technology Ethics	3
	Total Credits	**60**			**Total Credits**	**60**

Remaining Saint Peter's Courses

Year 3	COURSE NUMBER	COURSE NAME	CREDITS
	CORE 2.1	Humanities core	3
	CORE 2.1	Humanities core	3
	CORE 2.1/ 2.2	Social Science core	3
	TH-110/120	CORE Requirement 2.3	3
	PL-130/140	CORE Requirement 2.3	3
	CS-241	Python Programming	3
	CS-332	Advanced Computing	3
	CS-337	Statistical Computing with R	3
	CS-346	Machine Learning I	3
	CS-446	Machine Learning II	3
		Free Elective	3
Year 4	COURSE NUMBER	COURSE NAME	CREDITS
	TH/PL 200+	CORE Requirement 2.3	3
	CORE 2.1/ 2.2	Humanities core	3
	CORE 4.1	Mission Requirement	3
	CS-415	Robotics Fundamentals	3
	CS-470	Intro to AI	3
	CS-499	Capstone for Computer Science	3
		Free Elective	3
		Free Elective	3
		Free Elective	3
		Free Elective	3
		Minimum Total Credits to Graduate	**120**

Notes:

- Humanities recommendations for CORE curriculum are History, Literature, Art, or Language
- A student must maintain a 2.0 average in the CS-231 and CS-332 sequence to continue as a computer science major.
- CS/CIS majors are encouraged to study a commercially popular programming language, such as Python and/or Java