

## Computer Science, B.S.

for students entering Fall 2022

MATH/STAT	Collateral 1	3	MATH/BUSA	Collateral 2	3
CPSC 121	Intro. to Computer Program I	4	CPSC 122	Intermediate Programming	4
CPSC 140	Intro to Information Technology	3	MATH 130	Discrete Math	3
WRIT 102	Research Writing	3	LIT 104	Literature	3
CORE 113	First Year Seminar	3	CSA 130	Cybersecurity Foundations	3
CORE 103	Community Enrichment	0	CORE 104	Community Enrich.	0
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>16</b>
CPSC 221	Data Structures	4	CPSC	Track 1 elective 1	3
MATH/BUSA	Collateral III	3	CPSC	Track 2 elective 1	3
CPSC 280	Algorithmic Programming	1	PHIL 205	Discovering Philosophy	3
RLST 105	Franciscan Goals for Today	3	LANG	ASL/FREN/GERM/ITAL/LATN/SPAN	3
EPPS	ECON101/PLSC/PSYC101/SOC	3	EPPS	ECON101/PLSC/PSYC101/SOC	3
	Free Elective	2		Free Elective	2
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>17</b>
CPSC	Track 1 elective II	3	CPSC	Track 1 elective III	3
CPSC	Track 2 elective II	3	CPSC	Track 2 elective III	3
EXAM 301	Writing Competence Exam	0	***	Diversity Requirement	3
RLST/PHIL	RLST or Philosophy	3	FNAR	FNAR/ART/MUS/THTR	3
HIST	HIST 100 or 200 level	3	EPPS	ECON101/PLSC/PSYC101/SOC	3
	Free Elective	3		Free Elective	1
	<b>Total</b>	<b>15</b>		<b>Total</b>	<b>16</b>
CPSC 492	Computer Science Seminar	1		Free Elective	1
CORE 407	Senior Capstone	3		Free Elective	3
	Free Elective	3		Free Elective	3
	Free Elective	3		Free Elective	3
	Free Elective	3		Free Elective	3
	Free Elective	3		Free Elective	3
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>16</b>

Total: 128 credits

### Collateral Requirements (9 credit hours): Choose one focus

Applied Mathematics Focus: MATH 121, MATH 122, MATH 322

Analytic Focus: STAT 205 or MATH 215; BUSA 201, BUSA 202

### Tracks: (18 total credits) Must Complete two separate tracks with 9 credits in each.

Information Technology: CPSC 231, CPSC 322, CPSC 422

Machine Learning and Data Science: CPSC 360, CPSC 361, CPSC 460

Programming and Language Track: CPSC 408, CPSC 420, CPSC 428

Software Development: CPSC 222, CPSC 409, CPSC 410

### Information Technology track

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- CPSC 322 - Introduction to System Administration
- CPSC 422 - System Administration
- CPSC 231 - Introduction to Networking

### Machine Learning and Data Science track

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- CPSC 360 - Machine Learning I
- CPSC 361 - Machine Learning II
- CPSC 460 - Deep Learning

### Programming and Languages track

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- CPSC 408 - Software Craftsmanship
- CPSC 420 - Programming Languages
- CPSC 428 - Advanced Programming Topics

### Software Development track

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- CPSC 222 - Server-Side Programming
- CPSC 409 - Web Application Architectures
- CPSC 410 - Software Engineering