



Computer and Information Sciences

Required Computer Science Courses

34 Units

		Units
_____	CIS 377 Intro to Cybersecurity	3
_____	COSC 236 Intro to Computer Science I	4
_____	COSC 237 Intro to Computer Science II	4
_____	COSC 290 Principles of Computer Organization	4
_____	COSC 336 Data Structures & Algorithm Analysis	4
_____	COSC 350 Data Communications & Networking	3
_____	COSC 412 Software Engineering	3
_____	COSC 439 Operating Systems	3
_____	COSC 455 Programming Languages	3
_____	COSC 457 Database Management Systems	3

Major - Computer Science Artificial Intelligence

Catalog Year 2026-2027 and Later

Required Science Courses (Core 7 and 8)

8 Units

Select 2 lab science courses from the following:

		Units
_____	ASTR 261 Intro to Astrophysics	4
_____	BIOL 200 + L Intro to Cell Biology	4
_____	BIOL 206 + L Intro to Ecology/Evolution	4
_____	CHEM 131 + L General Chemistry	4
_____	CHEM 132 + L General Chemistry II	4
_____	GEOG 121 Physical Geography	4
_____	PHYS 241 General Physics I	4
_____	PHYS 242 General Physics II	4

Required Artificial Intelligence Track Courses

18 Units

		Units
Required Courses:		
_____	COSC 461 Artificial Intelligence	3
_____	COSC 467 Machine Learning and Data Mining	3
_____	COSC 491 AI/ML Capstone	3
_____	COSC 443 Cyber AI	3

Select 2 from the following:

_____	COSC 397 Internship in COSC	3
_____	COSC 465 Robotics	3
_____	COSC 483 Design and Analysis Algorithms	3
_____	COSC 462 Generative AI and LLMs	3
_____	COSC 472 Computer Vision and Image Processing	3
_____	COSC 495 Independent Study	3

Required Mathematics Courses

19-20 Units

		Units
_____	MATH 263 Discrete Mathematics OR	3
_____	MATH 267 Intro to Abstract Mathematics	4
_____	MATH 265 Elementary Linear Algebra	4
_____	MATH 273 Calculus I	4
_____	MATH 274 Calculus II	4
_____	MATH 330 Intro to Statistical Methods	4

Total Units: 88-89

towson.edu/cis

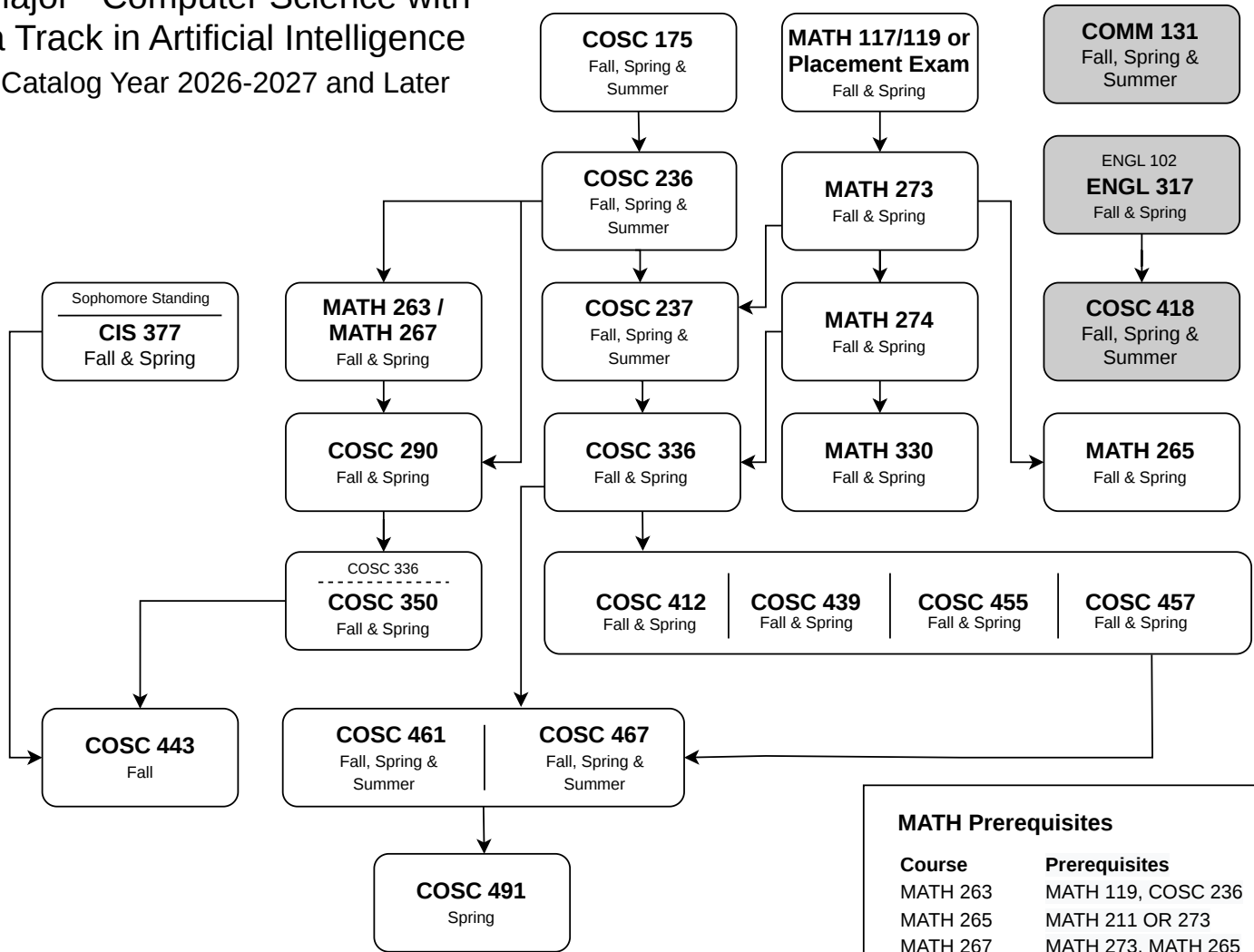
Required Core Courses

9 Units

		Units
_____	COMM 131 Public Speaking (Core 5)	3
_____	ENGL 317 Writing for Business & Industry (Core 9)	3
_____	COSC 418 Ethical & Societal Concerns CS (Core 14)	3

Major - Computer Science with a Track in Artificial Intelligence

Catalog Year 2026-2027 and Later



MATH Prerequisites

Course	Prerequisites
MATH 263	MATH 119, COSC 236
MATH 265	MATH 211 OR 273
MATH 267	MATH 273, MATH 265
MATH 273	MATH 119
MATH 274	MATH 273
MATH 330	MATH 274

Artificial Intelligence Elective Prerequisites and Offering

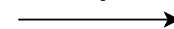
Elective	Prerequisites	Offered
COSC 397	COSC 336, 2.75 GPA, instructor consent	Fall, Spring & Summer
COSC 462	COSC 336	Fall
COSC 465	COSC 336	Occasionally
COSC 472	COSC 336	Spring
COSC 483	COSC 336	Fall
COSC 495	COSC 336, approved proposal	By Permission

Sophomore Status

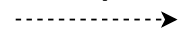
CIS 377

Course/Status listed
above is also a
prerequisite.

Prerequisite



Co-Requisite



**All course prerequisites are strictly enforced.*

Find more advising resources at:

<https://www.towson.edu/fcsm/departments/computerinfosci/resources/advising.html>

View Third Attempt / Prerequisite Policy at:

<https://www.towson.edu/fcsm/departments/computerinfosci/resources/>

Visit the CIS Advising Hub in YR 207

Or Email: cisadvising@towson.edu

