HOLY CROSS COLLEGE
at Notre Dame, Indiana

11.10.2023

COMPUTER SCIENCE (CS)
MINOR REQUIREMENTS

Minor REQUIREMENTS **COMPUTER SCIENCE (CS)**

The following worksheet lists courses needed to fulfill requirements to graduate with a ***Computer Science*** minor.
All courses in the minor must be completed with a grade C or higher. No specific math course is required for the minor, but specific courses require one or more math courses.

Course	Credits	Available
Computer Science Minor Required Courses		
CS 150 Introduction to Programming Prerequisite: MATH 111 (or higher) with a C- or higher, ALEKS > =46%, ACT >= 20, or SAT >=570 or higher	**4**	**Fall/Spring**
CS 160 Discrete Logic Prerequisite: MATH 111 (or higher) with a C- or higher, ALEKS > =46%, ACT >= 20, or SAT >=570 or higher	**4**	**Fall/Spring**
CS 250 Computer Science II (Python/C++) Prerequisite: CS 150 with a C or higher	**4**	**Fall/Spring**
Computer Science Elective Courses Choose elective courses from the list below that totals 6 credit hours. No more than 4 credit hours of CS1xx level elective courses may be counted towards the 6 credit hours of electives in the CS minor.		
CS 1xx Workshops	**1**	
CS 107 Introduction to Computer Applications	**3**	**Fall**
CS 175 Great Ideas in Computer Science	**3**	**Spring**
CS Special Topics	**1-6**	**See syllabi**
Cybersecurity focus		
CS 205 CyberOps Prerequisite: CS107 or CS150 or Cisco Networking Academy introductory courses on Packet Tracer and Linux	**3**	**Fall**
CS 290 CS Ethics Prerequisite: *Sophomore or higher classification, CS1xx or higher course >= C, or instructor approval;*	**3**	**Spring**
CS 305 CS Forensics Prerequisites: **CS 205**	**3**	**Fall**
Artificial Intelligence and Data Analytics focus		
CS 217 Introduction to Data Analytics Prerequisite: C or higher in CS 107, CS150, CS160, or by examination, and MATH111 (or higher) >= C-	**3**	**Fall**
CS 227 Principles of Artificial Intelligence and Machine Learning Prerequisite: **CS 217** with a C or higher and **MATH 210** (or equivalent) with a C or higher	**3**	**Spring**
CS 280 Data Structures Prerequisite: Successful completion of **MATH 151** (or higher) with a C or higher; **CS 250** with a C or higher	**3**	**Spring**
AI and DA courses beyond the minor		
CS 317 Machine Learning Prerequisite: **CS 227** & **MATH 275**	**3**	**Fall**
CS 327 Computer Vision Prerequisite: **CS 227**	**3**	**Spring**
CS 400 Algorithms and Automata Prerequisite: **CS 280** & **MATH 152**	**3**	**Spring**
CS 407 Quantum Computing Prerequisite: **CS 317**	**3**	**Fall**
Sys Ops Focus		
CS 310 Operating Systems and Networks Prerequisites: **CS 2xx**	**3**	**Spring**
CS 350 Computer Organizations and Structure Prerequisite: **CS 2xx**	**3**	**Fall**
CS 360 FullStack WebOps Prerequisites: **ARTS 205** & CS 150	**3**	**Spring**
CS 370 SysOps Prerequisites: **CS 310**	**3**	**Fall**
CS 380 DevOps Prerequisites: **CS 310**	**3**	**Spring**

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