NICOLET COLLEGE

IT Web Software Developer

Associate of Applied Science

Prepares learners to design and develop desktop and web software using leading programming languages and related technologies. Learners are also exposed to hardware, networking and cutting-edge technologies such as AI and blockchain.

Program Outline

TERM 1

Course #	Course Title	Credits
1080119500	Written Communication Develops writing skills which include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Also develops critical reading and thinking skills through the analysis of a variety of written documents.	3.00
1015211500	Database Fundamentals Students learn the fundamental concepts and applications of relational database tables using a hands-on approach. Topics include database architectures, data structures, planning, creation, inquiry, updating, input and output forms (reporting), and importation of data from an outside source for use in databases.	3.00
1010312500	MS Outlook This course will cover creating and managing email messages, calendars, contacts, and tasks using Microsoft Outlook.	1.00
1010312600	MS Excel Beginning This course will cover creating a worksheet and chart; application of formulas, functions, and formatting; and working with large worksheets, charting, and what-if analysis using Microsoft Excel.	1.00
1015411000	IT Basic Skills This course explores online Internet fundamentals, computer basics, and common MS Office application features.	1.00
1015212100	Blockchain Basics This course explores blockchain technology basics including the fundamentals of how blockchains work and the implications the technology has on society.	1.00
1015011400	Network+ Fundamentals This course explores network cabling and hardware devices, switching and routing, security, addressing, Ethernet and wireless, LANs and WANs, operations and management, and optimization and troubleshooting.	3.00
1015417700	Web Programming Fundamentals Introduces the learner to the principles of web page development. In this course the students will learn to develop static web pages that contain text, images, and videos. Students will also link multiple web pages to produce a complete website.	3.00

TERM 2

Course #	Course Title	Credits
1015212000	Introduction to Programming Introduces the learner to programming concepts using structured logic and basic concepts related to computer programming and program development. Programs will be developed using sequential, selection, and looping control structures, functions, arithmetic calculations.	3.00
1080412300	Math with Business Applications Covers real numbers, basic operations, linear equations, proportions with one variable, percent, simple interest, compound interest, annuity, applying math concepts to the purchasing/buying/selling processes, and basic statistics with business and consumer applications. Prerequisite: Accuplacer Algebra score >=35 or ACT Mathematics score >=18.	3.00
1080919500	Economics With a focus on contemporary issues, this introductory course covers cost-benefit analysis, economics systems of the world, globalization, supply and demand, market structures, the labor market, economic growth, unemployment, inflation, business cycles, money, and government economic policy. The course strives to help students improve their individual and household decision-making, understand business decision-making, comprehend the current national and international economic issues and policies, and critically evaluate government response to economic concerns.	3.00
1015214600	Programming 2 Further develops concepts introduced in Introduction to Programming and explores more advanced topics such as methods, classes and arrays. Prerequisite: 1015212000 Introduction to Programming (C or better).	3.00
1015220000	Decentralized Finance (Defi) This course explores blockchain technology basics including the fundamentals of how blockchains work and the implications the technology has on society. Prerequisites: 1015212100 Blockchain Basics (C or better) and 1015417700 Web Programming Fundamentals (C or better) and 1015212000 Introduction to Programming (C or better) and 1015214600 Programming 2 (C or better).	3.00

TERM 3

Course #	Course Title	Credits
1080119600	Oral Interpersonal Communication Focuses upon developing speaking, verbal and nonverbal communications, and listening skills through individual presentations, groups activities, and other projects.	3.00
1015218300	Interactive Web Programming Students learn to create interactive webpages that respond to user input. Prerequisites: 1015212000 Introduction to Programming (C or better) and 1015417700 Web Programming Fundamentals (C or better).	3.00
1015222000	Non-Fungible Tokens (NFTs) This course covers the tools and development of non-fungible tokens (NFTs) and how they can be used on the blockchain. Prerequisites: 1015212100 Blockchain Basics (C or better) and 1015417700 Web Programming Fundamentals (C or better) and 1015212000 Introduction to Programming (C or better) and 1015214600 Programming 2 (C or better).	3.00
1015216000	Programming 3 Further develops concepts introduced in Programming 2 and explores more advanced topics such as Graphical User Interfaces and databases. Prerequisite: 1015214600 Programming 2 (C or better).	3.00

Course #	Course Title	Credits
1080926000	Introduction To Philosophy Introduces fields of philosophy, philosophical reasoning, and the history of philosophy. Developed the ability to think, speak, argue, and write critically about complex and general issues. Topics vary and may include cross-cultural philosophies, epistemology, metaphysics, ethics, logic and critical reasoning, as well as clarification about the roles and philosophy, religion, and science.	3.00

TERM 4

Course #	Course Title	Credits
1080919900	Psychology of Human Relations Focuses on improving personal and job-related relationships through understanding and applying sound psychological principles. Topics include self-concept, motivation, emotions, stress management, conflict resolution, and human relation processes.	3.00
1015221000	Smart Contracts This course covers the tools and development of smart contracts that run on the blockchain. Prerequisites: 1015212100 Blockchain Basics (C or better) and 1015417700 Web Programming Fundamentals (C or better) and 1015212000 Introduction to Programming (C or better) and 1015214600 Programming 2 (C or better).	3.00
1015223000	Smart Contracts 2 This course continues the exploration of smart contract technology from the smart contracts 1 course and covers additional strategies, techniques, and practices for writing and deploying smart contracts on the blockchain. Prerequisite: 1015221000 Smart Contracts (C or better).	3.00
1015215500	e Portfolio Administration Students will design and create an e-portfolio. This portfolio will contain information about personal achievements in the field of Information Technology as well as sample offerings of the work completed as part of their coursework while attending Nicolet College. The e-portfolio will take the form of a personal/professional website that will be implemented on a web server for review. Prerequisites: 1015218300 Interactive Web Programming (C or better) (concurrent enrollment allowed) and 1015216000 Programming 3 (C or better) (concurrent enrollment allowed) and 1015212500 Database Design and Implementation (C or better) (concurrent enrollment allowed).	3.00
1015416500	Project Management This course explores project management principles and practices, including project initiation, project team roles and responsibilities, the Work Breakdown Structure (WBS), project schedule creation, resource planning and management, project budget and risk plan definition, project communications, change request processing and procurement documents, and project tools and documentation.	3.00

Total Credits: 61.00

Talk with a Success Coach about the program outline. Together, you will determine if credits you've already earned satisfy any requirements, discuss possible alternative courses, and choose the best classes if you're thinking of transferring.

At A Glance

How You'll Learn

Next Academic Start Dates

11
JAN

Spring 2027 Term Starts

15
MAR

Additional Spring 2027 Start for Select Courses

VIEW FULL CALENDAR

Program Tuition*

$9,982

*Total cost for degree completion is estimated by current course requirements, books, and supplies. Tuition and fees are set by the Wisconsin Technical College System and subject to change.

Financial Aid Eligible

▸ Potential Indirect Costs

What You'll Learn

- Plan web-based solutions
- Design web application
- Build front-end of web-based software applications
- Build back-end of web-based software applications
- Integrate database technologies
- Develop technical documentation for web applications
- Test web application

Transfer Pathways

Are you planning to earn a bachelor's degree? Learn about the transfer pathways offered through Nicolet College.

LEARN MORE ABOUT TRANSFERRING

Your Potential Careers

- Web Programmer
- Web Analyst
- Web Developer
- Web Designer

Median Annual Salary

Local	State	National
$43,504	$47,452	$52,839

Lightcast 2023.1

Get Started

Your application can be submitted online, it takes just a few minutes to complete.

APPLY NOW