Computer Science

Create and maintain computer and information technologies so the rest of us can live better lives.

The Bachelor of Arts degree with a major in computer science is currently offered at all of the Lakeland College centers. Most courses are also offered BlendEd®.

Central Wisconsin Center

800.522.9473

centralwi@lakeland.edu

Chippewa Valley Center

800.993.3413

chippewavalley@lakeland.edu

Fox Cities Center

888.942.4444

foxcities@lakeland.edu

Green Bay Center

888.861.8255

greenbay@lakeland.edu

Madison Center

800.589.5134

madison@lakeland.edu

Milwaukee Center

800.421.2949

milwaukee@lakeland.edu

Sheboygan Center

800.569.2166 sheboygan@lakeland.edu

omputers have become such an essential part of our lives that most of us no longer think about them. We expect that they will be there – streamlining our workplace, accessing our information and providing our entertainment. That's where computer science graduates come in: they create and maintain computer and information technologies so the rest of us can live better lives.



The computer science major enables students to position themselves "inside" the already-accomplished computer revolution. Majors are presented with a practical background in programming and data management, as well as the skills that will allow them to devise and implement computer solutions to real-world problems. At the upper levels of coursework, students use electives to guide and focus their own studies, preparing themselves for careers in applications programming, information technology and systems management.

REQUIRED COURSEWORK (45-46 semester hours)

All courses listed are 3 semester hours unless otherwise indicated.

CPS 200	Programming I
CPS 210	Database Basics
CPS 212	Programming II

CPS 316 CPS 323

CPS 325

CPS 420

CPS 425

CPS 435

CPS 450

CPS 452

CPS 455

CPS 480

CPS 362 Introduction to Data Structures

CPS 442 Database Management, Warehousing and Mining **CPS 445** Systems Analysis and Design (Writing Intensive)

Object-Oriented Programming II

Mobile Application Development Information Security and Forensics II

Networking and Telecommunications

Information Technology Project Mgmt.

Special Topics in Computer Science

Computer Architecture

Operating Systems

Artificial Intelligence

Predictive Analytics

MAT 250 Discrete Mathematics

Complete one of the following areas of emphasis:

Computer Science Emphasis

CPS 221	semester hours from the following: COBOL Programming Information Security & Forensics I Special Topics in Computer Science Advanced Programming Programming Languages Object-Oriented Programming I	Up to four (4) semester hours from the following non-CPS courses: BUS 301 Management Information Systems MAT 370 Numerical Analysis A Foreign Language
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Information Systems Emphasis

BUS 301	Management Information Systems
CPS 221	COBOL Programming
or	
CPS 314	Programming Languages
CPS 315	Object-Oriented Programming I
CPS 452	Information Technology Project Management
CPS 455	Predictive Analytics
The completion of a minimum of 9 semester hours from the "Computer Science" emphasis, not to include the above courses.	

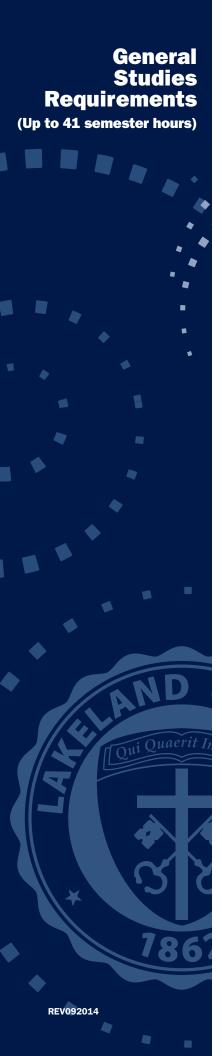
Software Design Emphasis

CPS 221	COBOL Programming	
or CPS 313	Advanced Programming	
CPS 314	Programming Languages	
CPS 315	Object-Oriented Programming I	
CPS 316	Object-Oriented Programming II	
CPS 435	Mobile Application Development	
The completion of a minimum of 9 semester hours from the "Computer Science" emphasis, not to include the above courses.		



For more information, visit lakeland.edu/adult.





DISTRIBUTIONAL STUDIES

Rhetorical Development

GEN 110 Composition I: Academic Writing

GEN 112 Composition II: Argumentation and Research

Quantitative Skills

MAT 130 Intermediate Algebra

or

MAT 150 Statistics for Everyday Life

SELECT A MINIMUM OF 3 CREDITS FROM 7 OF THE 8 FOLLOWING CATEGORIES:

Art, Music and Theatre (ART, MUS, THE)

History and Political Science (HIS, POL)

Literature and Writing (ENG, WRT)

Excludes WRT 110 and WRT 210

Mathematics (MAT)

Excludes MAT 130 and MAT 150

Natural Sciences (BIO, CHM, PHY and GEN 183)

Philosophy and Religion (PHI, REL)

Social Sciences (ANT, CRJ, ECN, SOC, PSY)

Excludes SOCP 335

World Languages (CHI, GER, JPS, SPA or other)

INTERDISCIPLINARY STUDIES

GEN 130 General Studies Core I: Knowing the Self (Exempt with at least 30 transfer credits)

GEN 3XX General Studies Core II: Exploring the Human Condition

(Exempt with at least 90 transfer credits)

GEN 4XX General Studies Core III: Shaping the Future

Upon completion of the requirements for the Bachelor of Arts degree through the Lakeland College evening, weekend and online program, degree-earning students will have

- earned at least 120 semester hours of college credit, with a minimum of 30 semester hours having been completed through Lakeland College;
- satisfied the requirements of at least one academic major;
- completed the General Studies requirements; and
- maintained a cumulative 2.0 grade point average in both the major and in all coursework taken through Lakeland College.

The Lakeland College evening, weekend and online program's liberal arts component enables students to develop the necessary skills and knowledge to communicate clearly, inquire methodically, evaluate rationally and reason validly. These skills are developed through courses in:

- Distributional Studies, which develop knowledge in areas outside the major; and
- Interdisciplinary Studies, which encourage the integration of knowledge and values.