COMPUTER SCIENCE

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

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

Central Wisconsin Center
715.422.5418 / 800.522.9473
centralwi@lakeland.edu

Chippewa Valley Center
715.723.2720 / 800.993.3413
chippewavalley@lakeland.edu

Fox Cities Center
920.727.0777 / 888.942.4444
foxcities@lakeland.edu

Green Bay Center
920.336.7170 / 888.861.8255
greenbay@lakeland.edu

Madison Center
608.244.2725 / 800.589.5134
madison@lakeland.edu

Milwaukee Center
414.476.6565 / 800.421.2949
milwaukee@lakeland.edu

Sheboygan Center
920.565.1047 / 800.569.2166
sheboygan@lakeland.edu

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Computers 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

(57 SEMESTER HOURS)

All courses listed are 3 semester hours.

CPS 200	Programming I
CPS 210	Database Basics
CPS 212	Programming II
CPS 362	Introduction to Data Structures
CPS 442	Database Management, Warehousing and Mining
CPS 445	Systems Analysis and Design (Writing Intensive)
MAT 250	Discrete Mathematics

Students must select and successfully complete one of the following emphases:

COMPUTER SCIENCE

At least 24 semester hours from the following:

CPS 221	COBOL Programming
CPS 250	Information Security & Forensics I
CPS 280	Special Topics in Computer Science
CPS 313	Advanced Programming
CPS 314	Programming Languages
CPS 315	Object-Oriented Programming I
CPS 316	Object-Oriented Programming II
CPS 323	Computer Architecture
CPS 325	Networking and Telecommunications
CPS 420	Operating Systems
CPS 425	Artificial Intelligence
CPS 435	Mobile Application Development
CPS 450	Information Security and Forensics II
CPS 452	Information Technology Project Mgmt.
CPS 455	Predictive Analytics
CPS 480	Special Topics in Computer Science

Up to 4 semester hours from the following courses:

BUS 301 Management Information Systems
MAT 370 Numerical Analysis
A Foreign Language

INFORMATION SYSTEMS

Completion of at least 9 semester hours from the "Computer Science" emphasis not to include the courses below.

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

SOFTWARE DESIGN

Completion of at least 9 semester hours from the "Computer Science" emphasis not to include the courses below.

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

AVAILABLE COMPLETELY ONLINE

DEGREE REQUIREMENTS

(Up to 41 semester hours)

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

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

SELECT A MINIMUM OF 3 SEMESTER HOURS 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)

Upon completion of the requirements for the Bachelor of Arts degree through the Lakeland University 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 University;
- 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 University.

The Lakeland University 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.

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ALSO AVAILABLE AS A MINOR.

For more information, visit **Lakeland.edu/Adult**