

COMPUTER INFORMATION SYSTEMS, PROGRAMMING OPTION, BS

Bachelor of Science in Computer Information Systems, Programming (244302BS)

More on the Computer Information Systems major (<https://www.uakron.edu/bit/cis/>)

Program Contacts

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Program Description

The Computer Information Systems (CIS) offers associate and baccalaureate programs that introduce students to basic computing concepts while allowing them to develop the applied skills required the workforce. Courses start the student along the path for professional certifications. There are options, minors, and certificates available. CIS courses are taught in cutting edge computer labs so students can learn and practice skills. The CIS program offers high level training for the information technology professionals. Schedules offer a range of day and evening classes.

Department Policy

- **Students must attain a "C" or better in each course in their major area (2440).**
- A cumulative GPA of 2.0 GPA and a minimum of 15 earned credit hours for Inter- and Intra- College Transfer into all Associate and Bachelor's degree programs.
- Prior to enrolling in classes for the BS degree you must contact an advisor in Polsky 301.

Career Information

Graduates of the AAB/BS CIS – Programming program are expected to qualify for such positions as software or applications developers, programmer analysts, software database administrators, database designers, database developers, and database warehouse analysts in government, business, information technology, and other industries.

For additional information please visit the Bureau of Labor Statistics (www.bls.gov) or visit the Career Center at Simmons Hall Room 301 (<http://www.uakron.edu/career>).

The following information has official approval of **The Department of Computer Science** and **The College of Engineering and Polymer Science**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals,*

successfully passing courses, prerequisites, among others. The transfer process is completed through an appointment with your academic advisor. The College of Applied Science and Technology recommends that students take the General Education courses listed in this recommended sequence. Transfer students should consult their Advisor to identify courses that are equivalent.

1st Year		Hours
Fall Semester		
2020:121	English	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2420:104	Introduction to Business	3
2440:121	Introduction of Logic/Programming	3
2440:140	Web Design Fundamentals	3
Hours		16

Spring Semester		Hours
2020:222	Technical Report Writing	3
2420:103	Essentials of Management Technology	3
2440:145	Introduction to Unix/Linux	3
2440:170	Visual BASIC ²	3
2440:180	Introduction to Database Management ²	3
Hours		15

2nd Year		Hours
Fall Semester		
2420:211	Essentials of Financial Accounting	3
2420:263	Professional Communications and Presentations	3
2440:210	Client/Server Programming ¹	3
2440:241	Systems Analysis & Design ¹	3
2440:256	C++ Programming ¹	3
Hours		15

Spring Semester		Hours
2040:247	Survey of Basic Economics (Gen Ed - Social Science/Critical Thinking Tag)	3
2420:202	Elements of Human Resource Management	3
2420:212	Basic Accounting II	3
or 2420:243	or Survey in Finance	
2440:160	JAVA Programming ²	3
2440:240	Computer Information Systems Internship ²	3
Hours		15

3rd Year		Hours
Fall Semester		
2030:154	Technical Mathematics IV	3
2040:240	Human Relations	3
2440:360	Java Programming II ¹	3
	Humanities Requirement ³	3
2440:xxx	CIS Elective	3
Hours		15

Spring Semester		Hours
2030:345	Technical Data Analysis	2
2440:306	Ethics & Law in Information Technology ²	3
2440:456	C++ Programming II ²	3
	Arts Requirement ³	3

Natural Science Requirement with Lab		4
Hours		15
4th Year		
Fall Semester		
2040:244	Death & Dying	3
or 2040:254	or The Black Experience from 1619-1877	
or 2040:256	or Diversity in American Society	
or 2040:257	or The Black Experience 1877 - 1954	
or 2040:258	or The Black Experience 1954 - Present	
2440:465	Data Communications & Networking ¹	3
2440:470	Database Management II ¹	3
3450:208	Introduction to Discrete Mathematics	4
Arts or Humanities Requirement ³		3
Hours		16
Spring Semester		
2440:450	Applied Data Mining ²	3
2440:451	Senior Programming Projects ²	3
Complex Systems Tag Requirement		3
Natural Science Requirement		3
Free Elective		3
Hours		15
Total Hours		122

¹ Traditionally Fall Only (See Program Contact).

² Traditionally Spring Only (See Program Contact).

³ All students pursuing a bachelor's degree at the University of Akron must complete the General Education requirements. For efficient completion of UA General Education requirements, it is recommended that students choose an Arts or Humanities course to fulfill the Global Diversity tag for CIS bachelor's programs.

Policy Alert: By the end of your first 48 credit hours attempted, you must have completed your required General Education English, Mathematics, and Communications (Speech) requirements.

CIS Electives

The CIS Elective may be chosen from the following list:

Code	Title	Hours
2440:321	Server-Side Scripting	3
2440:370	Visual Basic Programming II	3
2440:388	Advanced UNIX/Linux	3
2440:480	Current Topics in Computer Information Systems	3

Note:

- Students entering the Computer Information Systems programs (Cybersecurity, Digital Forensics, Networking, and Programming) must pass department placement exams or complete the following bridge course prior to enrolling in the program.
 - Bridge Course: 2440:105 Introduction to Computers and Application Software