

Computer Information Systems

Networking Option, Bachelor of Science Degree (244201BS)

The following information has official approval of The University of Akron's College of Applied Science and Technology but is intended only as a guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. 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, and prerequisites, among others. The transfer process is completed through an appointment with your Academic Advisor.

CIS core courses are in **bold** type. Business core courses are in regular type. General Education requirements are in *italics*. All other courses are in **bold italic** type. If a course is not specified, refer to the General Education webpage at <http://www.uakron.edu/cast/gened>. The College of Applied Science and Technology recommends that students take the General Education courses listed in this curriculum guide. Transfer students should consult their Advisor to identify courses that are equivalent.

| Year 1 Fall | Prerequisite |
|---|--|
| 2020:121 <i>English (3)</i> | <i>Placement by Advisor</i> |
| 2030:152 <i>Technical Mathematics II (2)</i> -AND- 2030:153 <i>Technical Mathematics III (2)</i> | <i>Placement by Advisor</i> 2030:152 (pass with C- or better) |
| 2420:104 Introduction to Business in Global Environment (3) | |
| 2440:121 Introduction to Logic/Programming (3) | 2440:105 or placement test |
| 2440:247 Hardware Support (3) (Note a) | |
| Total Credits = 16 | |

| Year 1 Spring | Prerequisite |
|--|-----------------------------------|
| 2020:222 <i>Technical Report Writing (3)</i> | <i>2020:121 or equivalent</i> |
| 2420:103 Essentials of Management Technology (3) | |
| 2440:141 Website Administration (3) | 2440:105 or placement test |
| 2440:145 Introduction to Unix/Linux (3) | 2440:105 or placement test |
| 2440:248 Server Hardware Support (3) (Note b) | 2440:247 |
| Total Credits = 15 | |

| Year 2 Fall | Prerequisite |
|--|--|
| 2040:247 <i>Survey of Basic Economics (3)</i> <i>Fulfills Critical Thinking Tag</i> | |
| 2420:263 <i>Professional Communications and Presentations (3)</i> | <i>Prerequisite or corequisite:</i> <i>2020:121 or 3300:111</i> |
| 2420:211 <i>Basic Accounting I (3)</i> | |
| 2440:201 Networking Basics (3) (Notes a & c) | |
| 2440:202 Router and Routing Basics (3) (Notes a & c) | 2440:201 |
| Total Credits = 15 | |

| Year 2 Spring | Prerequisite |
|---|---|
| 2040:244 <i>Death and Dying (3)</i> -OR- 2040:254 <i>Black Experience 1619-1877 (2)</i> -OR- 2040:256 <i>Diversity in American Society (3)</i> -OR- 2040:257 <i>Black Experience 1877-1954 (2)</i> -OR- 2040:258 <i>Black Experience 1954-Present (2)</i> <i>Each Course Fulfills Domestic Diversity Tag</i> | 2020:121 or 3300:112 2020:121, or 3300:112 or equivalent 2020:121 or 3300:112 2020:121 or 3300:112 |
| 2420:202 Elements of Human Resource Management (3) | 2420:103 or permission |
| 2420:212 <i>Basic Accounting II (3)</i> -OR- 2420:243 <i>Survey of Finance (3)</i> | 2420:211 2420:211 |
| 2440:203 Switching Basics and Wireless (3) (Notes b & c) | 2440:202 |
| 2440:204 WAN Technologies (3) (Notes b & c) | 2440:202, 2440:203 |
| 2440:240 CIS Internship (3) (Note b) | 2440:241, or (2440:202 & 2440:247), or (2440:282 & 2440:247) |
| Total Credits = 17-18 | |

| Year 3 Fall | Prerequisite |
|---|--|
| 3400:210 <i>Humanities in the Western Tradition I (4)</i> -OR- 3400:221 <i>Humanities in the World Since 1300 (4)</i> <i>Fulfills Critical Thinking Tag</i> | <i>32 credits and completion of</i> <i>3300:112 or 3300:114 or 2020:222</i> <i>or permission</i> |
| 2030:154 Technical Mathematics IV (3) | 2030:153 |
| 2440:300 Network Authentication and Security (3) (Note a) | 2440:201, 202, 203, 204 |
| 2440:303 Voice, Video and Data (3) (Note b) | 2440:204 |
| 2440:310 Wireless Networking (3) (Note a) | 2440:204 |
| Total Credits = 16 | |

| Year 3 Spring | Prerequisite |
|--|--|
| 7100:210 <i>Visual Arts Awareness (3)</i> -OR- 7500:201 <i>Exploring Music, Bach to Rock (3)</i> -OR- 7900:200 <i>Viewing Dance (3)</i> -OR- <i>Arts Requirement (3) (Note e)</i> | 3400:210 or 3400:221 3400:210 or 3400:221 3400:210 or 3400:221 |
| <i>Natural Science Requirement with Lab (4)</i> | |
| 2440:306 Ethics and Law in IT (3) (Note b) | Junior/Senior standing |
| 2440:388 Advanced Unix/Linux (3) (Note b) | 2440:145 |
| 2440:400 Advanced Routing (4) (Note b) | 2440:201, 202, 203, 204, 300 and 2030:154 |
| Total Credits = 17 | |

| Year 4 Fall | Prerequisite |
|---|--|
| 3300:252 <i>Shakespeare and His World (3)</i> -OR- 3600:101 <i>Introduction to Philosophy (3)</i> -OR- <i>Arts or Humanities Requirement (3) (Note e)</i> | <i>For 3300:252 only: 3300:111 and</i> <i>3300:112 or their equivalents</i> <i>(2020:121 and 2020:222), and</i> <i>3400:210 or 3400:221</i> |
| 2040:240 <i>Human Relations (3)</i> | |
| 2440:282 Microsoft Networking II (3) (Notes a & c) | Corequisite: 2440:270 or permission |
| 2440:401 Multilayer Switching (3) (Note a) | 2440:201, 202, 203, 204 or permission |
| 2440:430 Network Monitoring and Management (3) (Note a) | 2440:204 |
| Total Credits = 15 | |

| Year 4 Spring | Prerequisite |
|--|---|
| 2040:243 <i>Contemporary Global Issues (3)</i> <i>Fulfills Global Diversity Tag</i> | |
| <i>Natural Science Requirement without Lab (3)</i> | |
| <i>Complex Issues Tag Requirement (3)</i> | |
| 2440:402 Troubleshooting Complex IP-based Networks (3) (Note b) | 2440:400, 401 |
| 2440:490 CIS Senior Networking Projects (3) (Note b) | 2440:338; and at least two of: 2440:310, 2440:400, 2440:401, or 2440:402 |
| Total Credits = 15 | |

Total Credits for Degree = 126 minimum

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.

You must have a minimum cumulative GPA of a 2.0 to graduate with this degree.

Department of Business and Information Technology Policy Notes

- Students must attain a "C" or better in each course in their CIS major area (2440).
- The Dept. of Business and Information Technology requires 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.

Notes

- a) Traditionally Fall Only (See Program Contact)
- b) Traditionally Spring Only (See Program Contact)
- c) Course is a 7.5 week course
- d) Prior to enrolling in classes for the B.S. degree you must contact an adviser in Polsky 301
- e) Course must be part of the Ohio Transfer Module.

BS CIS – Networking Option (Total Credits)

- General Education (44-45/126-127) = 35%
- Business Core (18/126-127) = 14%
- CIS (64/126-127) = 51%

Program Contacts

- Janet Kropff (jsk3@uakron.edu), 330-972-2075
- Dr. John Nicholas (jn@uakron.edu), 330-972-2563

Program Description

The CIS discipline or program area offers associate and baccalaureate programs that introduce students to basic computing concepts while allowing them to develop the basic skills required to begin a career. 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. Schedules offer a range of day and evening classes.

Career Information

Graduates of the **AAB/BS CIS – Networking** program are expected to qualify for such positions as helpdesk support specialists, desktop support analysts, computer operators, PC technicians, network administrators, network specialists, systems administrators, and messaging administrators 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 in Simmons Hall, Room 301, <http://www.uakron.edu/career/>

Transfer to the College of Applied Science and Technology

To be admitted to the College of Applied Science and Technology, a student must have a GPA of 2.0. A student can complete the transfer process through an appointment with an Academic Advisor in the college in which they reside.