

**College of Applied Science and Technology**  
**COMPUTER INFORMATION SYSTEMS (244201BS)**  
**NETWORKING OPTION**  
 Bachelor of Science Degree

The following information has official approval of the **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, prerequisites, among others.*

Course in **bold** are core CIS courses. Non-bold, non-italicized courses are non-CIS core courses.

*Italicized* courses fulfill General Education requirements. Unless a course is specified, refer to the General Education guide at [http://www.uakron.edu/advising/docs/General\\_Education\\_Guide.pdf](http://www.uakron.edu/advising/docs/General_Education_Guide.pdf).

<b>1<sup>st</sup> Year</b>		<b>Fall Semester</b>	<b>Credit Hours</b>	<b>Prerequisites</b>
2020:121	<i>English</i>		3	<i>Placement by Advisor</i>
2030:152	<i>Technical Mathematics II -AND-</i>		2	<i>Placement by Advisor</i>
2030:153	<i>Technical Mathematics III</i>		2	<i>2030:152 (must be passed with C- or better)</i>
2420:104	Intro to Business in the Global Environment		3	
<b>2440:121</b>	<b>Introduction to Logic/Programming (Note a)</b>		<b>3</b>	<b>2440:105 or placement test</b>
<b>2440:247</b>	<b>Hardware Support (Note a &amp; c)</b>		<b>3</b>	
<b>Total</b>			<b>16</b>	
<b>1<sup>st</sup> Year</b>		<b>Spring Semester</b>		
2020:222	<i>Technical Report Writing</i>		3	<i>2020:121 or equivalent</i>
2420:103	Essentials of Management Technology		3	
<b>2440:141</b>	<b>Website Administration (Note a)</b>		<b>3</b>	<b>2440:105 or placement test</b>
<b>2440:145</b>	<b>Introduction to Unix/Linux (Note a)</b>		<b>3</b>	<b>2440:105 or placement test</b>
<b>2440:248</b>	<b>Server Hardware Support (Note a &amp; d)</b>		<b>3</b>	<b>2440:247</b>
<b>Total</b>			<b>15</b>	
<b>2<sup>nd</sup> Year</b>		<b>Fall Semester</b>		
2040:247	<i>Survey of Basic Economics</i>		3	
2420:263	<i>Professional Communications and Presentations</i>		3	<i>2020:121 or Permission</i>
7600:106	<i>-OR- Effective Oral Communication</i>			
7600:105	<i>-OR- Introduction to Public Speaking</i>			
2420:211	Basic Accounting I		3	
<b>2440:201</b>	<b>Networking Basics (Notes a, c &amp; e)</b>		<b>3</b>	
<b>2440:202</b>	<b>Router &amp; Routing Basics (Notes a, c &amp; e)</b>		<b>3</b>	<b>2440:201</b>
<b>Total</b>			<b>15</b>	
<b>2<sup>nd</sup> Year</b>		<b>Spring Semester</b>		
2040:254	<i>Black Experience 1619-1877 -OR-</i>		2	<i>2020:121 or 3300:112 or equivalent</i>
2040:257	<i>Black Experience 1877-1954 -OR-</i>			<i>2020:121 or 3300:112 or equivalent</i>
2040:258	<i>Black Experience 1954 to Present -OR-</i>			<i>2020:121 or 3300:112 or equivalent</i>
2040:256	<i>Diversity in American Society</i>			<i>2020:121 or 3300:112 or equivalent</i>
2420:202	Elements of Human Resource Management		3	2420:103 or permission
2420:212	Basic Accounting II -OR-		3	2420:211
2420:243	Survey of Finance			2420:211
<b>2440:203</b>	<b>Switching Basics &amp; Wireless (Notes a, d &amp; e)</b>		<b>3</b>	<b>2440:202</b>
<b>2440:204</b>	<b>WAN Technologies (Notes a, d &amp; e)</b>		<b>3</b>	<b>2440:202, 2440:203</b>
<b>2440:240</b>	<b>CIS Internship (Note a &amp; d)</b>		<b>3</b>	<b>2440:241, or (2440:202 and 2440:247), or (2440:282 &amp; 2440:247)</b>
<b>Total</b>			<b>17</b>	

3 <sup>rd</sup> Year	Fall Semester	Credit Hours	Prerequisites
3400:210 3400:221	Humanities in the Western Tradition I -OR- Humanities in the World Since 1300	4	32 credits & 2020:222 or 3300:112 or 3300:114 (or permission)
2030:154	Technical Mathematics IV	3	2030:153
2440:300	Network Authentication and Security (Notes a & c)	3	2440:204
2440:303	Voice, Video and Data (Notes a & d)	3	2440:204
2440:310	Wireless Networking (Notes a & c)	3	2440:204
<b>Total</b>		<b>16</b>	

3 <sup>rd</sup> Year	Spring Semester	Credit Hours	Prerequisites
	Humanities Requirement	3	
	Natural Science Elective	4	
2440:306	Ethics & Law in IT (Notes a and d)	3	Junior/Senior Standing
2440:388	Advanced Unix/Linux (Notes a & d)	3	2440:145
2440:400	Advanced Routing (Notes a & d)	4	2440:300 and 2030:154
<b>Total</b>		<b>17</b>	

4 <sup>th</sup> Year	Fall Semester	Credit Hours	Prerequisites
	Humanities Requirement	3	
	Human Relations	3	
2440:282	Microsoft Networking II (Notes a, c & e)	3	Co-requisite:2440:270 or permission
2440:401	Multilayer Switching (Notes a & c)	3	2440:201,202,203,204 or Permission
2440:430	Network Monitoring and Management (Notes a & c)	3	2440:204
<b>Total</b>		<b>15</b>	

4 <sup>th</sup> Year	Spring Semester	Credit Hours	Prerequisites
	Physical Education/Wellness Elective	1	
	Area Studies & Cultural Diversity Requirement	2	
	Natural Science Elective	4	
2440:402	Troubleshooting Complex IP-based Networks (Notes a & d)	3	2440:400, 401
2440:490	CIS Senior Networking Projects (Notes a and d)	3	2440:338; and at least two of: 2440:310, 2440:400, 2440:401, or 2440:402
<b>Total</b>		<b>13</b>	
	<b>Total Credits for Degree</b>	<b>124</b>	

**POLICY ALERT:** By the end of your first 48 credit hours attempted, you must have completed your REQUIRED General Education English, Math, and Communications (Speech) requirements

**Must have a minimum cumulative GPA of a 2.0 to graduate with this degree**

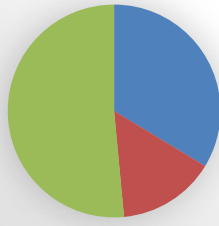
**DEPARTMENT OF BUSINESS & INFORMATION TECHNOLOGY POLICY NOTES**

- 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**

- Traditionally Fall only (see program contact)
- Traditionally Spring only (see program contact)
- Course is a 7.5 week course
- Prior to enrolling in classes for the B.S. degree you must contact an adviser in Polsky 301

## BS CIS - Networking (Total Credits)



- Gen. Ed (42/129 cr.) - 34%
- Business Core/Math (18/124 cr.) - 15%
- CIS (69/124 cr) - 52%

### **PROGRAM CONTACT**

- Janet Kropff ([jsk3@uakron.edu](mailto:jsk3@uakron.edu)), 330-972-2075
- Dr. John Nicholas ([jn@uakron.edu](mailto: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 **AAS/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](http://www.bls.gov)) or visit the Career Center at Simmons Hall, Room 301 (<http://www.uakron.edu/career>).

### **TRANSFER TO THE COLLEGE OF APPLIED SCIENCE & 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 Adviser in the College in which they reside.

(Hoge/Kropff/Nicholas)