Effective: Spring 2015 **Last Updated: 11/09/2014**

College of Applied Science and Technology

COMPUTER INFORMATION SYSTEMS – NETWORKING OPTION

244201BS

Bachelor of Science Degree

http://www.uakron.edu/summitcollege/business_technology/computer-information-systems/index.dot

See the curriculum guide for the Computer Information Systems Computer Maintenance and Networking option, CISCO track associate degree http://www.uakron.edu/dotAsset/1817056.pdf.

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.

1st Year	Fall Semester	Credit Hours	Prerequisites
2020:121	*English*	*3*	*Placement by Advisor*
2030:152 *2030:153*	*Technical Mathematics II **-AND-*** *Technical Mathematics III*	*2* *2*	*Placement by Advisor* *2030:152 (must be passed with C- or better)*
2420:104	Intro to Business in the Global Environment	3	
2440:145	**Introduction to Unix/Linux (Note a)**	**3**	**2440:105 or placement test**
2440:247	**Hardware Support (Note a & c)**	**3**	
Total		**16**	

1st Year	Spring Semester		
2020:222	*Technical Report Writing*	*3*	*2020:121 or equivalent*
2040:254 *2040:257* *2040:258* *2040:256*	*Black Experience 1619-1877**-OR-*** *Black Experience 1877-1954 **-OR-*** *Black Experience 1954 to Present **-OR-*** *Diversity in American Society*	*2*	*2020:121 or 3300:112 or equivalent* *2020:121 or 3300:112 or equivalent* *2020:121 or 3300:112 or equivalent* *2020:121 or 3300:112 or equivalent*
2420:103	Essentials of Management Technology	3	
2440:140	**Internet Tools (Note a)**	**3**	**2440:105 or placement test**
2440:141	**Website Administration (Note a)**	**3**	**2440:105 or placement test**
2440:248	**Server Hardware Support (Note a & d)**	**3**	**2440:247**
Total		**17**	

2nd Year	Fall Semester		
2040:247	*Survey of Basic Economics*	*3*	
2420:263 *7600:106* *7600:105*	*Professional Communications and Presentations* ***-OR-** Effective Oral Communication* ***-OR-** Introduction to Public Speaking*	*3*	*2020:121 or Permission*
2420:211	Basic Accounting I	3	
2440:201	**Networking Basics (Notes a, c & e)**	**3**	
2440:202	**Router & Routing Basics (Notes a, c & e)**	**3**	**2440:201**
Total		**15**	

2nd Year	Spring Semester		
2040:240	*Human Relations*	*3*	
2420:202	Elements of Human Resource Management	3	2420:103 or permission
2420:212	Basic Accounting II	3	2420:211
2440:203	**Switching Basics & Wireless (Notes a, d & e**	**3**	**2440:201**
2440:204	**WAN Technologies (Notes a, d & e)**	**3**	**2440:202, 2440:203**
2440:240	**CIS Internship (Note a & d)**	**3**	**2440:202 or 2440:282 & 2440:247**
Total		**18**	

3rd 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**
Total		**16**	

3rd Year	Spring Semester		
	Natural Science Elective	*4*	
3600:120	*Introduction to Ethics*	*3*	
2440:388	**Advanced Unix/Linux (Notes a & d)**	**3**	**2440:145**
2440:400	**Advanced Routing (Notes a & d)**	**4**	**2440:300 and 2030:154**
Total		**14**	

4th Year	Fall Semester		
	Physical Education/Wellness Elective	*1*	
	Area Studies & Cultural Diversity Elective	*2*	
	Free Elective (Note a.)	3	
2440:281	**Microsoft Desktop Environment (Notes a, c & e)**	**3**	**Co-requisite:2440:270 or Permission**
2440:282	**Microsoft Networking II (Notes a, c & e)**	**3**	**Co-requisite:2440:270 or permission**
2440:401	**Multilayer Switching (Notes a & c)**	**4**	**2440:201,202,203,204 or Permission**
2440:430	**Network Monitoring and Management (Notes a & d)**	**3**	**2440:204**
Total		**19**	

4th Year	Spring Semester		
	Humanities Elective	*3*	
	Natural Science Elective	*4*	
2440:402	**Troubleshooting Complex IP-based Networks (Notes a & d)**	**4**	**2440:400, 401**
2440:490	**CIS Senior Projects (Notes a and d)**	**3**	2440:338; and at least two of: 2440:301, 2440:401, 2440:310, or 2440:402.
Total		**14**	
	Total Credits for Degree	**129**	

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

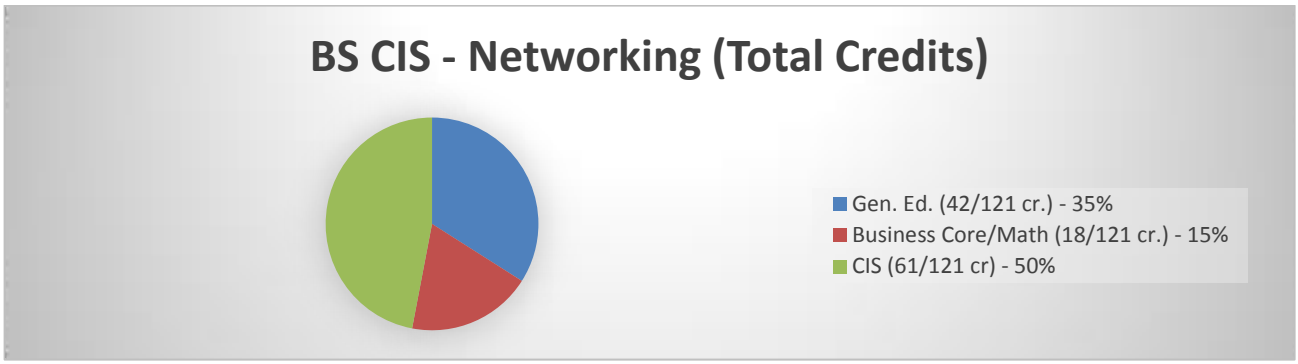
Must have a minimum cumulative GPA of a 2.0 to graduate with this degree

DEPARTMENT OF BUSINESS & INFORMATION TECHNOLOGY POLICY NOTES

a. Students must attain a "C" or better in each course in their CIS major area (2440).
b. 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

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



PROGRAM CONTACT

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

PROGRAM DESCRIPTION

The CIS program 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.

The CIS program offers high level training for computer programmers and microcomputer application specialists. Schedules offer a range of day, evening and weekend classes.

CAREER INFORMATION

Graduates of the AAS/BS CIS program are expected to qualify for such positions as programmer trainees, programmer/analysts, software developers, computer operators, or network specialists in business, industry and government organizations.

For additional information please visit the Bureau of Labor Statistics www.bls.gov or visit the Career Center at the Student Union, Room 211 http://www.uakron.edu/career/

TRANSFER TO THE COLLEGE OF APPLIED SCIENCE & TECHNOLOGY

A student in University College can complete this transfer process through an appointment with an Academic Adviser, the Academic Advisement Center, Simmons Hall 205, 330-972-7430. Students in other Colleges can complete this transfer process by meeting with an Academic Advisor in the College in which they reside.

(Hoge/Kropff/Nicholas)