

Information Technology Semester Curriculum
IT+ MHI program - Updated 3/31/2017

University of Cincinnati/CECH

Fall (S1)			Spring (S2)		
IT 1050	Fundamentals of IT	3		Track Course 1	3
IT 1080C	Computer Networking	3	IT 2060C	Database Management I	3
IT 1090C	Computer Programming I	3	IT 1081C	System Administration	3
ENGL 1001	English Composition	3	IT 2040C	Fund. of Web Development	3
				Intro to Interpersonal	
MATH 1026	Pre-Calculus	5	COMM 1076	Communication	3
PD 1010	Intro to COOP for CECH	1	IT2030C*	Info. Sec. and Assurance*	3
		18			18 /15

Fall (S3)			Summer (S4)		
	Track Course 2	3		Track Course 3	3
IT 3060C	Database Management II	3	IT 2030C*	Info. Sec. and Assurance	3
IT 2020	Implications of IT	3		Advisor Approved Elective	3
IT 1051C	Fund. of Digital Media	3	ENGL 2089	Interm. Compos.	3
HPE 2071	Applied Statistics	3	MATH 1071	Discrete Math	3
	Science Elective*	3		Science Elective*	3
		18			18 /15

Spring (S5)			Fall (S6)		
	Track Course 4	3		Track Course 5	3
			ENGL 4091	Writing for Business	
			OR		
				Technical and Scientific	
IT 2021	Human Comp. Interaction	3	ENGL 4092	Writing	3
IT3020	Systems Analysis & Design	3	IT 4020	Management in IT	3
	Advisor Approved Elective**	3	IS7031	DB Modeling and Design	3
HI7020	Vocabs, Terminology, Knowledge Discovery and Related Health IT Standards	3	IS7033	Intro to Stats, Healthcare Data Analytics and BI	3
	Health Information				
HI7030	Legislation, Privacy and Security	3			
		18			15

Summer (S7)			Fall (S8)			Spring (S9)		
	Gen Ed Elective**	3	IT 5001	Senior Design Proj Mat I	3	IT 5002	Senior Design Proj Mat II	3
	Advisor Approved Elective	3		Track Course 6	3		Track Course 8	3
HI7040	Workflow Process Analysis, System Development, Human Factors and Usability	3						
HI7050	Project and Program Management	3		Track Course 7	3		Advisor Approved Elective	3
HI7001	Healthcare and Public Health Landscape	3		Advisor Approved Elective	3		Gen Ed Elective**	3
HI7010	Health Informatics, IS, and Tech	3	HI7060	Leadership and Strategic Mgmt in Health Settings	3	HI7090	Practicum	6
			BANA7015	Advanced Health Data, Analytics, BI and Reporting	3			
		18			18			18

Total Credits 156

BSIT Tracks

Networking/Systems Track

- IT 2035C Network Infrastructure Management (1)
- IT 3036C Enterprise Systems Administration (2)
- IT 3037C Cloud Computing (3)
- IT 3071C Network Security (4)
- IT 3038C Scripting Languages (5)
- IT 4037C Special Topics in Networking/Systems (6)
- IT 5031C Senior Design Networking/Systems Technical Practicum I (7)
- IT 5032C Senior Design Networking/Systems Technical Practicum II (8)

Software Application Development Track

- IT 2045C Computer Programming II (1)
- IT 3045C Contemporary Programming (2)
- IT 3048C Mobile Device Programming (3)
- IT 3046C Client-Side Web Programming (4)
- IT 3047C Web Server App. Development (5)
- IT 4045C Enterprise Application Development (6)
- IT 5041C Senior Design Software Application Development Technical Practicum I (7)
- IT 5042C Senior Design Software Application Development Technical Practicum II (8)

Cybersecurity Track

- IT 2035C Network Infrastructure Management (1)
- IT 3071C Network Security (2)
- IT 3072C Computer and Network Forensics (3)
- IT 3075C Network Monitoring and Intrusion Prevention Systems (4)
- IT 4076C Penetration Testing (5)
- IT 4077C Special Topics in Cybersecurity (6)
- IT 5071C Senior Design Cybersecurity Technical Practicum I (7)
- IT 5072C Senior Design Cybersecurity Technical Practicum II (8)

Information Technology Co-op schedule

Group A	Freshman		Sophomore			Pre-Junior			Junior			Senior		
	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall	Spring
	S1	S2	C1	S3	C2	S4	C3	S5	C4	S6	C5	S7	C6	S8

*Students must meet with their co-op advisor within the first three weeks of the semester that precedes their first planned co-op semester. With prior approval of the academic and co-op advisors, students may take up to six credit hours of courses while on co-op. Students must complete and pass all coursework for S1 and S2 and have a minimum 2.0 GPA to be eligible to co-op.

** Science Electives must be from BIOL, CHEM, PHYS or GEOL

*** General Education Electives must be from chosen from courses designated as Fine Arts, Historical Perspectives, Humanities and Literature, or Social Sciences. Each elective must represent a different area.

**** Students in the Cybersecurity track must take IT2030 in the spring of their freshmen year (S2). All other students will take in their second year (S4)

**** Cybersecurity track students should take CJ1001 Introduction to Criminal Justice and POL2035 Cybersecurity Strategy and Policy as their first two advisor approved electives

***** Students are considered undergraduate CECH students for the first four years of the program (S1 to S6 and C1 to C5), will become graduate students in the fifth year of the program (S7, S8, and S9), and will graduate with a Bachelor of Science in Information Technology and Master of Health Informatics at the end of the spring semester of the fifth year.

Students in the Bachelor of Science in Information Technology may use the prior learning assessment process (<http://www.uc.edu/testing/services/pla.html>) to receive advanced standing for a maximum of 4 semester IT courses for which they have prior experience. Please speak to the academic advisor or a faculty member before applying.