Foundation Courses	WSU Course	WSU Tech Course	CR	Grade	Sem /YR	Notes
Foundation courses must be completed with a C- or better within the first 48 hours of college coursework.	ENGL 101 College English 1	ENG 101 Composition I	3			
	ENGL 102 College English 2	ENG 120 Composition II	3			
	COMM 111 Public Speaking	SPH 101 Public Speaking	3			
	MATH 111 College Algebra	MTH 112 College Algebra	3			

WSU Gen Ed Curriculum	WSU Course	WSU Tech Course	CR	Grade	Sem /YR	Notes
Divisional Requirements: Complete one course in each division.*	Fine Arts	ART, MUS, or THR	3			
	Humanities – PHIL 125 Introductory Logic	No Equivalent	3			
	Social/Behavioral Science ID 300 Design Thinking & Innov.	No Equivalent	3			
	Math & Natural Science – PHYS 213 General College Physics I	PHS 120 Physics I	5			
Additional Requirements: Complete **4** courses chosen from at least **2** divisions above*	Division I – PSY 111 General Psychology	PSY 101 General Psych	3			
	Division II – PSY 323* Social Psychology	No Equivalent	3			
	Any Division – STAT 370* Elementary Statistics	MTH 120 Elm. Stats.	3			
	Any Division – PHIL 354* Ethics & Computers SPRING ONLY	No Equivalent	3			

- ***At least 9 hours must be numbered 300 or above.**
- Students with an AA or AS earned through a Kansas Community College may fulfill requirements by completing two 300-level gen ed courses at WSU.

Applied Computing Major Coursework						
	WSU Course	WSU Tech Course	CR	Grade	Sem /YR	Notes
Math & Natural Sciences (16 hrs)	MATH 111 College Algebra	MTH 112 College Algebra	3			
	MATH 123 College Trigonometry	MTH 113 College Trig	3			
	PHYS 213 Gen. College Physics I	PHS 120 Physics I	5			
	PHYS 214 Gen. College Physics II	No Equivalent	5			
Core Certificate: Fundamentals of Information Tech. (12 hrs)	ENGT 121 Cybersecurity Awareness	No Equivalent	3			
	ENGT 222 Applied Computing & Networks I	No Equivalent	3			
	ENGT 321 Applied Computing & Networks II	No Equivalent	3			P: ENGT 222
	ENGT 322 Applied Programming & Scripting	No Equivalent	3			P: ENGT 222

Applied Computing Major Coursework						
Applied Computing Core (28 hrs)	ENGR 220 Applied Analog and Digital Electronics	No Equivalent	3			P: MATH 111
	ENGT 324 Applied Web Apps. and Database Development	No Equivalent	3			*P: ENGT 222*
	ENGT 326 Cyber Operations	No Equivalent	4			P: ENGT 121, 321 and 322
	ENGT 201 Intro. to Engr. Tech.	No Equivalent	1			P: WSUE102A, ID 300 or ENGR 302
	ENGT 301 Fund. of Engr. Tech.	No Equivalent	2			P: Sophomore Standing
	ENGT 401 Senior Project I	No Equivalent	3			P: ENGT 201
	ENGT 402 Senior Project II	No Equivalent	3			P: ENGT 401
	PHIL 125 Introductory Logic	No Equivalent	3			
	ECON 201 Principles of Macroeconomics	ECO 105 Macroeconomics	3			
	PSY 301 Psychological Statistics or STAT 370 Elementary Statistics	MTH 120 Elementary Statistics	3			P: PSY 111 P: MATH 111
Required Elective Certificates (27-32 hrs)	Cert. in Applied Data Analysis	Select a minimum of two of the certificates listed that contribute at least 27 unduplicated credit hours or more.			Cybersecurity Track: Cybersecurity Essentials, Data & Web Security, and Human Factors in Tech & Security certificates.	
	Cert. in Cyber Physical Systems					
	Cert. in Cybersecurity Essentials					
	Cert. in Data and Web Security					
	Cert. in Human Factors in Security and Technology					
Electives	With an advisor, select additional technical electives chosen from an approved list to make a total of 120 unduplicated credit hours.					
Engineering+ *Students must select 3 of the 7 options listed here to meet Engineer of 2020 requirements* *Wichita.edu/engineering+*	**Cooperative Education or Internship**					
	Entrepreneurship and Innovation – University Innovation Fellow or complete an approved entrepreneurial competition					
	Global Learning or Study Abroad – Earn undergraduate certificate in Global Competency, participate in global learning project within a class at WSU, or complete a credit-bearing course in a foreign country where English is not the first language.					
	Multidisciplinary Education – Earn a minor, second major, or double degree or work on a two-semester project as part of a multidisciplinary team with student members outside of the College of Engineering.					
	Undergraduate Research – Compete in the university Undergraduate Research and Creative Activity Forum, submit your research for presentation at a conference, co-author of a journal or paper.					
	Leadership – Participate in a class or documented formal leadership training. Then, complete an activity where you successfully lead others to an established goal and submit a one-page summary/report to your department. Opportunities could also exist through the military, your place of employment or through student involvement. *Obtain preliminary approval of these activities from your department.*					
	Service Learning – Participate in a Service Learning course or complete a total of 40 hours of volunteer services.					

All courses with an ENGT prefix require that any prerequisite course is passed with a *C-* or better grade (1.700/4.000 grade point average).

ASSOCIATE OF ARTS DEGREE REQUIREMENTS
Earn credit for **60** cumulative hours.
Earn a minimum of **15** hours at WSU.
Earn a minimum of **48** hours in Liberal Arts and Sciences coursework.
Complete all general education requirements.
Maintain an overall, WSU and cumulative GPA of 2.00 or higher.

GRADUATION REQUIREMENTS FOR THE BS IN APPLIED COMPUTING:
Earn credit for 120 cumulative hours.
Earn credit in a minimum of 60 hours at a 4-year institution.
Earn credit in a minimum of 45 hours of upper-division coursework.
Complete all general education requirements.

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Maintain an overall, WSU, and program GPA of 2.00 or higher.
At least 24 of last 30 or 50 of last 60 credit hours must be completed at WSU.

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Wallace Hall, 300
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Suggested Course Sequence for WSU Tech Coursework – For WSU Gen Ed Policy				
	WSU Tech Course	CR	Prerequisite	Notes
WSU Tech Semester 1	ENG 101 Composition I	3	Entrance Score	
	MTH 112 College Algebra	3	Entrance Score	*See math requirement note below.*
	SPH 111 Public Speaking	3		
	PSY 101 General Psychology	3		
	Fine Arts	3		
WSU Tech Semester 2	MTH 113 College Trigonometry	3	Entrance Score or MTH 112	*See math requirement note below.*
	ENG 120 Composition II	3	ENG 101 w/ C or better	
	PHYS 120 General Physics I	5	MTH 112 w/ C or better	
	ECO 105 Principles of Macroeconomics	3		
	ORI 003 Shocker Pathway Transition	0		
Semester 3 – Dual Enroll	MTH 120 Elementary Statistics	3		@ WSU Tech
	WSUE 102A 1st Year Sem. In Tech	3		@ WSU
	PHIL 125 Introductory Logic	3		@ WSU
	ENGT 121 Cyber Security Awareness	3		@ WSU fall only
	PSY 323 Social Psychology	3		@ WSU
Semester 4 – WSU	PHYS 214 General College Physics II	5	Physics I w/ C or better	
	PHIL 385 Engineering Ethics	3		
	ENGR 220 Applied Analog & Digital Electronics	3	College Algebra w/ C or better	*Spring only*
	ENGR 222 Applied Computing & Networks 1	3	College Algebra w/ C or better	*Spring only*
	Elective Certificate or TE	3		

Math placement based on entrance score. Take math course as determined by score and continue with math until math options at WSU Tech have been completed. Math sequence must be top priority for engineering majors.

Visit our Shocker Pathway website at: www.wichita.edu/academics/adult_learning/shocker_pathway.php

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