

Applied Computing Core Course

Fall 2020 Schedule

Freshman – 1st Semester			15
WSUE102A	First Year Seminar in Tech and Innovation (S&BS + FYS)		3
COMM111	Public Speaking		3
MATH111	College Algebra		3
ENGL101	College English I		3
ENGT121	Cybersecurity Awareness (fall only)		3
Freshman – 2nd Semester			15
PSY111	General Psychology (S&BS)		3
MATH123	College Trig P: MATH111		3
ENGL102	College English II P:ENGL101		3
ENGR220	Applied Analog and Digital Electronic (spr only) P: MATH111		3
ENGT222	Applied Computing and Networks 1 (spr only) P: MATH111		3

Junior – 1 st Semester			14
ENGT305	Intermediate Project Design P: ENGT201		2
PSY301	Psychological Statistics P: PSY111 (If taken FA must be 300 level) or		3
STAT370	Elementary Statistics P: MATH111		
	Elective Certificate or TEs		9
Junior – 2nd Semester			16
ENGT326	Cyber Operations (spr only) p: ENGT121, ENGT321 & ENGT322		4
PHIL345	Ethics and Computers (Humanities)		3
	Elective Certificate or TEs		9

Sophomore – 1st Semester			15
PHYS213	General College Physics I P:MATH123		5
ENGT203	Introductory Design Project P: WSUE102A, ENGR302 or ID300		1
ENGT321	Applied Computing and Networks 2 (fall only) P: ENGT222		3
ECON201	Principles of Macro Econ (S&BS) or IME255		3
	TE - Recommend PHIL125 Introductory Logic		3
Sophomore – 2nd Semester			17
PHYS214	General College Physics II P: PHYS213		5
PSY323	Social Psychology (S&BS) P: PSY111		3
	FA (at 300 level or above unless STAT370 is taken)		3
ENGT322	Applied Programing & Scripting (spr only) P: ENGT222		3
ENGT324	Applied Web Apps & DB Dev (spr only) P: ENGT222		3

Senior – 1st Semester			15
ENGT 403	Senior Design Project I P: ENGT301 & Senior or dept consent		3
	Elective Certificate or TEs		12

Senior – 2nd Semester			13
ENGT 402	Senior Design Project II P: ENGT401		3
	Elective Certificate or TEs		10

NOTES:

All first-year college students must take WSUE 102A within their first two semesters. Transfer students can choose ID 300 to replace WSUE 102A

Students must fulfill the Engineer 2020 requirements.

Students selecting PSY 301 will need to ensure they have a total of 9 credit hours of 300 level or above general education classes.

Student must take at least 27 unduplicated credit hours of BS-AP Certificates and additional Technical Electives from and approved list to make a total or 120 credit hours

All engineering prerequisites need to be completed with C- or higher

Applied Computing Certificate Selections

Fall 2020 Schedule

Cybersecurity Essentials Certificate			
Senior – 1st Semester			
ENGT461	Digital Forensics (<i>fall only</i>)	P: ENGT326	3
ENGT463	Cyber Risk Management (<i>fall only</i>)	P: ENGT326	3
Senior – 2nd Semester			
ENGT462	Cyber Physical Systems (<i>spr only</i>)	P: ENGR220, ENGT326	4
ENGT464	Web Application Security (<i>spr only</i>)	P: ENGT324, ENGT326	3

Data and Web Security Certificate			
Junior – 1 st Semester			
BDAM161,2,3	Business Software	P/C: MATH111	3
Senior – 1st Semester			
ENGT463	Cyber Risk Management (<i>fall only</i>)	P: ENGT326	3
MIS605	Systems Analysis & Design (<i>fall only</i>)	P: junior standing	3
Senior – 2nd Semester			
ENGT464	Web Application Security (<i>spr only</i>)	P: ENGT324, ENGT326	4
MIS696	Management of the IS Function (<i>spr only</i>)	P/C: MIS605	3

Game and Simulation Programing Certificate			
Junior – 1 st Semester			
MART232	Game Design I (<i>fall only</i>)	P: MART260	3
Junior – 2nd Semester			
MART332	Game Design II (<i>spr only</i>)	P: MART232	3
PSY508AB	Psychology of Video Games (<i>spr only</i>)	P: PSY111	3
Senior – 1st Semester			
ENGT371	Applied Object Orientated Programing	P: ENGT322	3
Senior – 2nd Semester			
ENGT574	Mod & Sim of Disc Event System	P: ENGT354	4

Cyber-Physical Systems Certificate			
Junior – 1 st Semester			
MATH242	Calculus I	P: MATH123	5
Junior – 2nd Semester			
ENGT320	Circuits Technology (<i>spr only</i>)	P: MATH 242 with "C-"	4
Senior – 1st Semester			
ENGT361	Industrial Controls & Instrumentation (<i>fall only</i>)	P: ENGT 320 & MATH 243	4
Senior – 2nd Semester			
ENGT462	Cyber Physical Systems (<i>spr only</i>)	P: ENGR220, ENGT326	4

Human Factors in Tech and Security Certificate			
Junior – 1 st Semester			
PSY323	Social Psychology (<i>requied if not taken as Gen Ed</i>)	P: PSY111	3
ENGT363	Human Threats to Cyber Security	P: ENGT121	3
Junior – 2nd Semester			
PSY405	Human Factors Psychology	P: PSY111	3
Senior – 1st Semester			
ENGT461	Digital Forensics (<i>fall only</i>)	P: ENGT326	3
ENGT463	Cyber Risk Management (<i>fall only</i>)	P: ENGT326	3

Applied Data Analysis Certificate			
Junior – 1 st Semester			
MATH242	Calculus I	P: MATH123	5
Junior – 2nd Semester			
MATH321	Discrete Structures I	P: MATH242	3
Senior – 1st Semester			
ENGT441	Analysis of Decision Processes	P: ECON201 or IME255	3
Senior – 2nd Semester			
ENGT572	Applied Machine learning	P: ENGT322	4