THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

COMPUTER ENGINERING ADVISING AND MENTORING FORM

Student Name	Jaiden Gann
A Number	A25282113
Date	10/13/2022

Topics for Discussion		
Academic Progress	✔	
Career Plan	✔	
Elective Courses	✔	
JUMP Program **	✔	
Co-op Options	✔	
Scholarship for Service *	✔	

Additional Comments

Senior, plan to graduate in Summer'22 (5 in Spring'22, 2 in Summer'22);
co-op Siemens; GPA: ~3.5
Career plan: continue at Siemens (QA)
Electives: taken (CS 321, CS 307, CS 347), CS 424 (or Survey in AI)

*** http://www.uah.edu/ccre/cybersecurity-scholarships**
**** https://www.uah.edu/admissions/graduate/discover-uah/joint-undergraduate-masters-program**

CPE Advisor Signature
Aleksandar Milenkovic

Approved Electives

COLLEGE OF ENGINEERING
THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Computer Engineering

Choose 12 hours of approved electives:

Only 3 hours may come from areas other than CPE, EE, or CS

Courses offered based on historical data, does not guarantee future availability.

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Computer Engineering				
CPE 412	3	Intro to Parallel Programming	CPE 212, CS 317	F
CPE 423	3	Hardware/Sotware Co-Design	CPE 322, CPE 426	M
CPE 426	3	VSLI Hardware Desc Lang/Modl/S	EE 202, EE 315	S
CPE 427	3	VLSI Design I	EE 202, EE 315; Coreq: CPE 427L	F
CPE 436	3	Internals of Modern Operating Systems	CPE 434	
CPE 449	3	Intro to Cybersecurity Engineering	CPE 348; Coreq: CPE 449L	F
CPE 455	3	Secure Software Development	CPE 353 or CS 307	
CPE 457	3	Sofware Reverse Engineering	CPE 353 or CS 307	
CPE 459	3	Systems Security	CPE 348	
CPE 490	3	Special Topics in Computer Engineering	Advisor Approval	
CPE 499	3	Project in Computer Engineering	Advisor Approval	

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Computer Science				
CS 307	3	Oject Oriented Programming C++	CS 221 or CPE 212	FSM
CS 321	3	Oject Oriented Programming Java	CS 221 or CPE 212	FS
CS 330	3	Artificial Intelligence & Game Development	CS 221 or CPE 212	S
CS 347	3	Intro Video Game Design & Programming	CS 221 or CPE 212	FS
CS 371	3	Mobile Computing Application Inct & Desn	CS 221 or CPE 212	F
CS 391	3	Intro Network Admin Priciples for Windows	CS 221 or CPE 212	
CS 392	3	Intro Network Admin Priciples for Unix	CS 390	
CS 396	3	Special Topics in Computer Science	Advisor Approval	
CS 403	3	Intro Formal Language & Automata Theory	CS 317	
CS 424	3	Programming Languages	CS 317	FSM
CS 443	3	Intro to Multimedia Systems	CS 317	
CS 445	3	Intro to Computer Graphics	CPE 212, (MA 244 or CS 217)	FS
CS 453	3	Client/Server Architectures	CS 307 or CS 321	F
CS 465	3	Network Security	CPE 221	FSM
CS 480	3	Mobile Digital Foensics	CS 413 or CPE 323	
CS 485	3	Computer & Software Security	CS 490	FS
CS 487	3	Database Systems	Senior Standing	F
CS 488	3	Intro to Big Data Computing	CS 317	
CS 496	3	Special Topics in Computer Science	Advisor Approval	

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Electrical Engineering				
EE 307	3	Electricity and Magnetism	PH 112, MA 201, EE 213	FSM
EE 308	3	Electromagnetic Engineering	EE 307	FS
EE 385	3	Random Signals and Noise	CPE 381 or EE 382	FSM
EE 386	3	Introduction to Control and Robotic Systems	CPE 381 or EE 382	FSM
EE 401	3	Real-Time Signal Process	EE 383 or CPE 381	
EE 410	3	Special Topics for Electrical Engineering	Advisor Approval	
EE 411	3	Electric Power Systems	EE 382 or CPE 381	S
EE 412	1-6	Senior Design Project for EE	Advisor Approval	
EE 414	3	Analog & Digital Filter Design	EE 315 and (EE 383 or CPE 381)	S
EE 416	3	Electronics II	EE 315	SM
EE 423	3	Commuication System & Simulations w/ Lab	EE 426	
EE 424	3	Intro to Data Communication Networks	(EE 383 or CPE 381) and EE 385	F
EE 426	3	Communication Theory	EE 382 or CPE 381	S
EE 436	3	Digital Electronics	EE 202 and EE 315	F
EE 437	3	Electronics Manufact Processes (ISE 437)	Senior Standing	M
EE 451	3	Optoelectronics	EE 307 and EE 315	F
EE 453	3	Laser Systems (OPE 453)	EE 307	F
EE 454	3	Optical Fiber Communications (OPE 454)	EE 307 and CPE 381	S
EE 486	3	Intro to Modern Control Systems	EE 386	F

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Industrial & Systems Engineering				
ISE 340	3	Operations Research	ISE 390	F
ISE 391	3	Probability & Engineering Statistics II	ISE 390	S
ISE 423	3	Intro to Statistical Quality Control	ISE 391	S
ISE 426	3	Design & Analysis of Experiments	ISE 391	S
ISE 430	3	Manufacturing Systems & Facility Design	ISE 324	F
ISE 447	3	Intro to Systems Simulations	ENG 101, ISE 391	F

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Mathematics				
MA 385	3	Intro to Probability & Statistics	MA 172	FS
MA 415	3	Intro to Numerical Methods	MA 201, MA 244, CPE 211	FS
MA 442	3	Algebraic Structures with Applications	MA 244, (MA 330 or MA 385)	FSM
MA 450	3	Combinational Enumeration	MA 385	
MA 452	3	Intro to Real Analysis	MA 330	FS
MA 456	3	Methods of Partial Differential Equations	MA 238, MA 244	
MA 458	3	Applied Linear Algebra	MA 238, MA 244	
MA 460	3	Intro Fourier Analysis	MA 238, MA 244	F
MA 465	3	Intro to Math Modeling	MA 201, MA 238, MA 244	S
MA 487	3	Intro to Math Statistics	MA 201, (MA 385 or ISE 390)	S

Course Number	Cr Hrs	Course Title	Prerequisite	Offered: F=Fall S=Spr M=Sum
Information Systems				
IS 463	3	Computer Forensics	IS 301	F

Course Number	Cr Hrs	Course Title	Prerequisite	Planned Term
Selected Computer Engineering Electives - 12 hours				
	3			
	3			
	3			
	3			

Updated: 9/16/2020