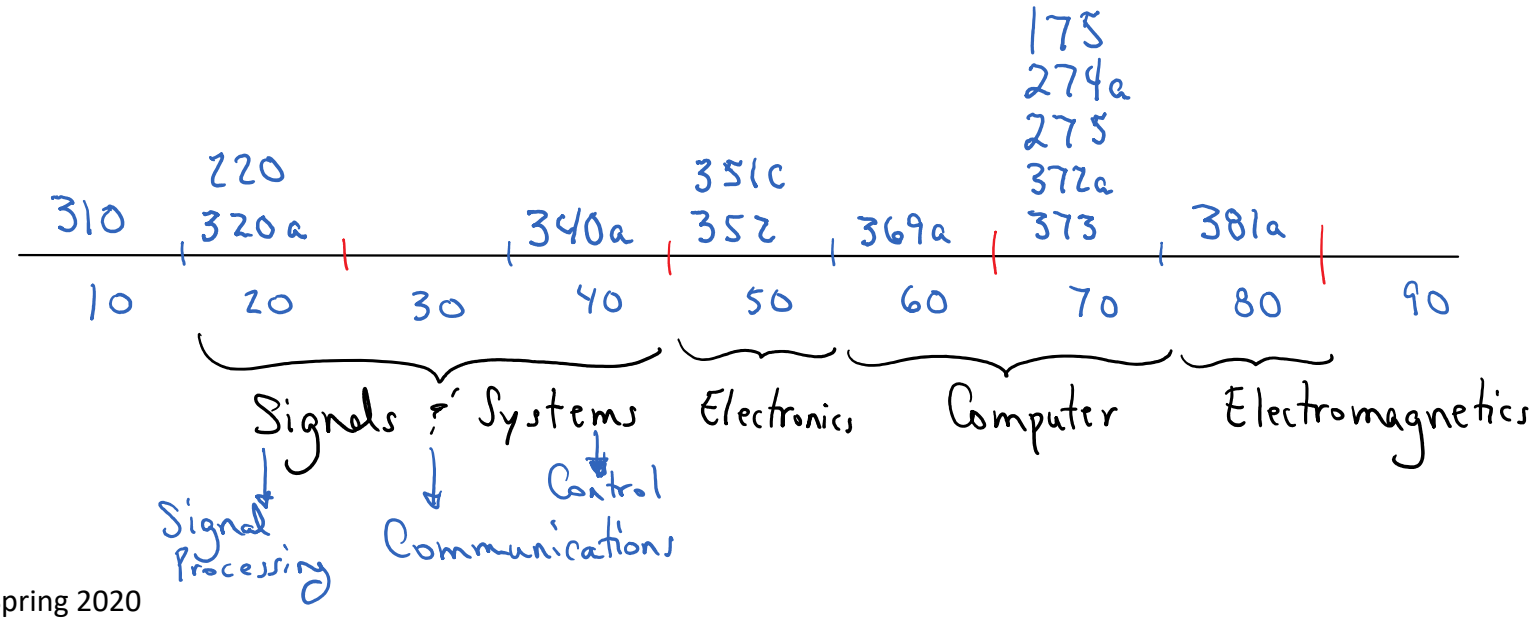
Technical Electives



Spring 2020

Computer Courses:			ECE 330B			Computational Techniques
			ECE 4/562			Computer Architecture
			ECE 4/566			Knowledge-System Engineering
			ECE 4/571			Fundamentals of Information and Network Security
			ECE 4/579			Principles of Artificial Intelligence

Electronics/Bio Courses:			ECE 352	(CE)		Device Electronics
			ECE 4/507			Digital VLSI System Design
			ECE 4/517			Measurement & Data Analysis in Biomedical Engineering

Electromagnetics/ Optics Courses:			ECE 381a	(CE)		Introductory Electromagnetics
			ECE 4/504			Optical Spectroscopy of Materials
			ECE 4/514a			Photovoltaic Solar Energy Systems
			ECE 4/584			Antenna Theory and Design

Signals & System Courses:			ECE 4/535a			Digital Communications Systems

Weekly Schedule (Spring 2020)					
Time	Mon	Tues	Wed	Thurs	Fri
8:00 AM		ECE 4/579		ECE 4/517 ECE 4/579	
8:30 AM		ECE 4/579		ECE 4/517 ECE 4/579	
9:00 AM	ECE 4/562	ECE 4/517 ECE 4/579	ECE 4/562	ECE 4/517 ECE 4/579	ECE 4/562
9:30 AM	ECE 4/562	ECE 4/517	ECE 4/562	ECE 4/517	ECE 4/562
10:00 AM	ECE 523	ECE 4/517	ECE 523	ECE 4/517	ECE 523
10:30 AM	ECE 523	ECE 4/517	ECE 523	ECE 4/517	ECE 523
11:00 AM	ECE 4/566	ECE 330B ECE 4/584 ECE 636	ECE 4/566	ECE 330B ECE 4/584 ECE 636	ECE 4/566
11:30 AM	ECE 4/566	ECE 330B ECE 4/584 ECE 636	ECE 4/566	ECE 330B ECE 4/584 ECE 636	ECE 4/566
12:00 PM		ECE 330B ECE 4/584 ECE 636	ECE 381a R	ECE 330B ECE 4/584 ECE 636	
12:30 PM	ECE 4/503A	ECE 533 ECE 534	ECE 381a R ECE 4/503A	ECE 533 ECE 534	
1:00 PM	ECE 4/503A ECE 4/571	ECE 533 ECE 534	ECE 4/503A ECE 4/571	ECE 533 ECE 534	ECE 4/571
1:30 PM	ECE 4/503A ECE 4/571	ECE 533 ECE 534	ECE 4/503A ECE 4/571	ECE 533 ECE 534	ECE 4/571
2:00 PM	ECE 4/507 ECE 4/535a	ECE 404	ECE 4/507 ECE 4/535a	ECE 404	ECE 4/507 ECE 4/535a
2:30 PM	ECE 4/507 ECE 4/535a	ECE 404	ECE 4/507 ECE 4/535a	ECE 404	ECE 4/507 ECE 4/535a
3:00 PM	ECE 381a	ECE 404	ECE 381a	ECE 404	ECE 381a
3:30 PM	ECE 381a ECE 577	ECE 638 ECE 696B	ECE 381a ECE 577	ECE 638 ECE 696B	ECE 381a
4:00 PM	ECE 4/514a ECE 577	ECE 638 ECE 696B	ECE 4/514a ECE 577	ECE 638 ECE 696B	ECE 4/514a
4:30 PM	ECE 4/514a ECE 577	ECE 638 ECE 696B	ECE 4/514a ECE 577	ECE 638 ECE 696B	ECE 4/514a
5:00 PM	ECE 639		ECE 639		
5:30 PM	ECE 4/542 ECE 639		ECE 4/542 ECE 639		
6:00 PM	ECE 4/542 ECE 639		ECE 4/542 ECE 639		
6:30 PM	ECE 4/542		ECE 4/542		

Fall 2020 (Anticipated)

Computer Courses:	ECE 369a	Fundamentals of Computer Architecture
	ECE 373	Object Oriented Software Design
	ECE 4/511	Numeric Modelling of Physics & Biological Systems
	ECE 4/513	Web Development and Internet of Things
	ECE 4/572	Design, Modeling, and Simulation for High Tech Sys in Medicine
	ECE 4/574a	Computer-Aided Logic Design
	ECE 4/578	Fundamentals of Computer Networks

Electronics/Bio Courses:	ECE 4/515	Microelectronic Manufacturing and Environment
	ECE 434	Electrical and Optical Properties of Materials
	ECE 4/550	Analog Integrated Circuits
Electromagnetics/ Optics Courses:	ECE 4/586	Microwave Engr I: Passive Circuits
	ECE 4/559	Fundamentals of Optics for Electrical Engineers

Signals & System Courses:	ECE 4/529	Digital Signal Processing
	ECE 4/530	Optical Communications Systems
	ECE 4/541a	Automatic Control Systems

Weekly Schedule (Fall 2019)					
Time	Mon	Tues	Wed	Thurs	Fri
8:00 AM		ECE 373 ECE 4/578		ECE 373 ECE 4/578	
8:30 AM		ECE 373 ECE 4/578		ECE 373 ECE 4/578	
9:00 AM	ECE 4/541a	ECE 373 ECE 4/578	ECE 4/541a	ECE 373 ECE 4/578	ECE 4/541a
9:30 AM	ECE 4/541a	ECE 4/511	ECE 4/541a	ECE 4/511	ECE 4/541a
10:00 AM	ECE 369a ECE 381a	ECE 4/511	ECE 369a ECE 381a	ECE 4/511	ECE 369a ECE 381a
10:30 AM	ECE 369a ECE 381a	ECE 4/511	ECE 369a ECE 381a	ECE 4/511	ECE 369a ECE 381a
11:00 AM	ECE 503	ECE 4/529 ECE 4/586 ECE 4/574A	ECE 503	ECE 4/529 ECE 4/586 ECE 4/574A	ECE 503
11:30 AM	ECE 503	ECE 4/529 ECE 4/586 ECE 4/574A	ECE 503	ECE 4/529 ECE 4/586 ECE 4/574A	ECE 503
12:00 PM	ECE 381a R	ECE 4/529 ECE 4/586 ECE 4/574A		ECE 4/529 ECE 4/586 ECE 4/574A	
12:30 PM	ECE 381a R	ECE 4/530 ECE 576A		ECE 4/530 ECE 576A	
1:00 PM		ECE 4/530 ECE 576A		ECE 4/530 ECE 576A	
1:30 PM		ECE 4/530 ECE 576A		ECE 4/530 ECE 576A	
2:00 PM	ECE 369a a Lab ECE 537	ECE 527	ECE 369a a Lab ECE 537	ECE 527	ECE 537
2:30 PM	ECE 369a a Lab ECE 537	ECE 527	ECE 369a a Lab ECE 537	ECE 527	ECE 537
3:00 PM	ECE 369a a Lab ECE 4/513	ECE 527	ECE 369a a Lab ECE 4/513	ECE 527	ECE 4/513
3:30 PM	ECE 369a b Lab ECE 4/513 ECE 564	ECE 4/515 ECE 532	ECE 369a b Lab ECE 4/513 ECE 564	ECE 4/515 ECE 532	ECE 4/513
4:00 PM	ECE 369a b Lab ECE 434 ECE 501b ECE 564	ECE 4/515 ECE 532	ECE 369a b Lab ECE 434 ECE 501b ECE 564	ECE 4/515 ECE 532	
4:30 PM	ECE 369a b Lab ECE 434 ECE 501b ECE 564	ECE 4/515 ECE 532	ECE 369a b Lab ECE 434 ECE 501b ECE 564	ECE 4/515 ECE 532	
5:00 PM	ECE 369a c Lab ECE 434 ECE 501b ECE 633	ECE 4/515 ECE 538	ECE 369a c Lab ECE 434 ECE 501b ECE 633	ECE 538	
5:30 PM	ECE 369a c Lab ECE 633	ECE 4/515 ECE 538	ECE 369a c Lab ECE 633	ECE 538	
6:00 PM	ECE 369a c Lab ECE 633	ECE 538	ECE 369a c Lab ECE 633	ECE 538	

THE UNIVERSITY OF ARIZONA.

Electrical and Computer Engineering-Accelerated Master's Program

(ECE-AMP)

The Accelerated Master's Program (AMP) is designed to allow undergraduate seniors to concurrently work toward a master's degree. This option is appropriate for exceptional undergraduate students who would also like to pursue a graduate degree. By counting a limited number of courses toward both degrees, students can earn a M.S. degree much quicker. The M.S. degree provides knowledge, technical skills and research skills for career advancement.

Admission Requirements

- Be an ECE undergraduate junior or senior
- Have a 3.3 cumulative undergraduate GPA
- Waive GRE requirement for admission to ECE Master of Science Degree (M.S.)
- Demonstration of the maturity necessary for success in an accelerated, highly competitive program.

Admission Application Process

- Submit Graduate College Application upon completion of a minimum of 75 undergraduate credit hours, second semester Junior year.

Coursework Requirements

- Select an ECE Faculty advisor who will guide the student's research or development work towards the completion of a thesis. The ECE-AMP program also has a Non-Thesis Option.
- Meet with the ECE Graduate Academic Advisor for assistance in the course selection of the 12 credits of Technical Electives

90+ Units

Ms. Tami Whelan

gradadvisor@ece.arizona.edu