

College of Humanities, Arts & Sciences (*Sciences*) Course Proposals in 2023-24 Curriculum Cycle

Undergraduate:

Status	Code	Title	College	Department	Graduate Credit Course Number	Is this proposal editorial or substantive?	UNIFI Course?
Added	ENGR 1000	ENGR 1000: Introduction to Engineering & Professional Practice	CHAS	Applied Engineering & Technical Management			
Added	ENGR 2080	ENGR 2080: Statics	CHAS	Applied Engineering & Technical Management			
Added	ENGR 2089	ENGR 2089: Engineering Seminar: (Topic)	CHAS	Applied Engineering & Technical Management			
Added	ENGR 2180	ENGR 2180: Strength of Materials	CHAS	Applied Engineering & Technical Management			
Added	ENGR 4235	ENGR 4235: Material Transformations & Modeling	CHAS	Applied Engineering & Technical Management	5235		
Added	ENGR 4500	ENGR 4500: Senior Design	CHAS	Applied Engineering & Technical Management			
Edited	TECH 1010	TECH 1010: Fundamentals of Metal Removal	CHAS	Applied Engineering & Technical Management		editorial	
Deleted	TECH 1012	TECH 1012: ePortfolio Development & Industry Exploration	CHAS	Applied Engineering & Technical Management			
Added	TECH 1016	TECH 1016: Computer Aided Design and Drafting	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 1017	TECH 1017: Computer-Aided Design and Drafting	CHAS	Applied Engineering & Technical Management			
Edited	TECH 1024	TECH 1024: Engineering Design with CAD	CHAS	Applied Engineering & Technical Management		editorial	
Edited	TECH 2024	TECH 2024: Technical Drawing with GD&T	CHAS	Applied Engineering & Technical Management		editorial	
Deleted	TECH 2038	TECH 2038: Introduction to Electrical Power and Machinery	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 2041	TECH 2041: Introduction to Analog Electronics	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 2042	TECH 2042: Introduction to Digital Electronics	CHAS	Applied Engineering & Technical Management			
Added	TECH 2051	TECH 2051: Analog Electronics	CHAS	Applied Engineering & Technical Management			
Added	TECH 2053	TECH 2053: Digital Electronics	CHAS	Applied Engineering & Technical Management			
Added	TECH 2055	TECH 2055: Electrical Power Systems & Machinery	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 2060	TECH 2060: Fundamentals of Automated Manufacturing	CHAS	Applied Engineering & Technical Management			

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Added	TECH 2065	TECH 2065: Industrial Robotics	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 2080	TECH 2080: Statics and Strength of Materials	CHAS	Applied Engineering & Technical Management			
Edited	TECH 2114	TECH 2114: Making Cool Stuff	CHAS	Applied Engineering & Technical Management		substantive	
Added	TECH 2405	TECH 2405: Introduction to Packaging; 3D Design and Package Prototyping	CHAS	Applied Engineering & Technical Management			
Edited	TECH 3127	TECH 3127: Applied Thermodynamics	CHAS	Applied Engineering & Technical Management		editorial	
Edited	TECH 3131	TECH 3131: Technical Project Management	CHAS	Applied Engineering & Technical Management	5131	substantive	
Deleted	TECH 3134	TECH 3134: Molding Practices in Metal Casting	CHAS	Applied Engineering & Technical Management			
Added	TECH 3136	TECH 3136: Principles of Metal Casting	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 3144	TECH 3144: Web Publishing	CHAS	Applied Engineering & Technical Management			
Edited	TECH 3147	TECH 3147: Computer Aided Manufacturing	CHAS	Applied Engineering & Technical Management		editorial	
Deleted	TECH 3152	TECH 3152: Advanced Analog Electronics	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 3156	TECH 3156: Advanced Digital Electronics	CHAS	Applied Engineering & Technical Management			
Edited	TECH 3160	TECH 3160: Computer-Aided Instrumentation and Interfacing	CHAS	Applied Engineering & Technical Management	5160	editorial	
Deleted	TECH 3163	TECH 3163: Advanced Digital Pre-Media	CHAS	Applied Engineering & Technical Management		substantive	
Deleted	TECH 3166	TECH 3166: Advanced Electrical Power Systems	CHAS	Applied Engineering & Technical Management	5166		
Added	TECH 3405	TECH 3405: Packaging Design, Structure, and Production	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 4136	TECH 4136: Melting Metallurgy and Practices	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 4158	TECH 4158: Graphic Communication Data Visualization	CHAS	Applied Engineering & Technical Management	5158		
Edited	TECH 4162	TECH 4162: Hydraulics & Pneumatics	CHAS	Applied Engineering & Technical Management		substantive	
Edited	TECH 4165	TECH 4165: Wireless Communication Networks	CHAS	Applied Engineering & Technical Management	5165	editorial	

Status	Code	Title	College	Department	Graduate Credit Course Number	Is this proposal editorial or substantive?	UNIFI Course?
Edited	TECH 4167	TECH 4167: Power Electronics Applications	CHAS	Applied Engineering & Technical Management	5167	editorial	
Deleted	TECH 4193	TECH 4193: Graphic Communication Estimating and Management II	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 4210	TECH 4210: Manufacturing Senior Projects	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 4220	TECH 4220: Senior Design	CHAS	Applied Engineering & Technical Management			
Deleted	TECH 4290	TECH 4290: Project Lead The Way: Digital Electronics	CHAS	Applied Engineering & Technical Management	5290		
Edited	TECH CM 1000	TECH CM 1000: Fundamentals of Construction Management Materials & Methods	CHAS	Applied Engineering & Technical Management		editorial	
Edited	TECH CM 1050	TECH CM 1050: Construction Safety	CHAS	Applied Engineering & Technical Management		editorial	
Edited	TECH CM 1100	TECH CM 1100: Construction Documents	CHAS	Applied Engineering & Technical Management		editorial	
Edited	TECH CM 2000	TECH CM 2000: Land, Route, and Construction Surveying	CHAS	Applied Engineering & Technical Management		editorial	
Edited	TECH CM 2050	TECH CM 2050: Construction Law	CHAS	Applied Engineering & Technical Management		editorial	
Deleted	TECH CM 2100	TECH CM 2100: Mechanical Systems in Construction	CHAS	Applied Engineering & Technical Management			
Added	TECH CM 2200	TECH CM 2200: Construction Project Management	CHAS	Applied Engineering & Technical Management			
Edited	TECH CM 3000	TECH CM 3000: Heavy Construction Operations & Equipment	CHAS	Applied Engineering & Technical Management		substantive	
Edited	TECH CM 3050	TECH CM 3050: Construction Estimating	CHAS	Applied Engineering & Technical Management		editorial	
Deleted	TECH CM 3100	TECH CM 3100: Electrical Construction Materials and Methods	CHAS	Applied Engineering & Technical Management			
Edited	TECH CM 3150	TECH CM 3150: Construction Project Planning, Scheduling and Control	CHAS	Applied Engineering & Technical Management		editorial	
Deleted	TECH CM 3250	TECH CM 3250: Computerized Project Management	CHAS	Applied Engineering & Technical Management			
Added	TECH CM 3300	TECH CM 3300: Pre Construction Management	CHAS	Applied Engineering & Technical Management			
Deleted	TECH CM 4050	TECH CM 4050: Construction Management	CHAS	Applied Engineering & Technical Management	5050		
Edited	TECH CM 4200	TECH CM 4200: Structural Components of Construction	CHAS	Applied Engineering & Technical Management		editorial	

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Deleted	TECH CM 4300	TECH CM 4300: Construction Technology and Innovation	CHAS	Applied Engineering & Technical Management		substantive	
Added	TECH CM 4350	TECH CM 4350: Construction Company Operations & Management	CHAS	Applied Engineering & Technical Management			
Deleted	TECH CM 4400	TECH CM 4400: Construction Management Senior Project	CHAS	Applied Engineering & Technical Management			
Deleted	TECH TEE 3030	TECH TEE 3030: Robotics and Sensors	CHAS	Applied Engineering & Technical Management			
Added	BIOL 1101	BIOL 1101: Principles of Anatomy & Physiology I	CHAS	Biology			
Added	BIOL 1102	BIOL 1102: Principles of Anatomy & Physiology II	CHAS	Biology			
Added	BIOL 1103	BIOL 1103: Pathophysiology	CHAS	Biology			
Edited	BIOL 3100	BIOL 3100: Evolution, Ecology and the Nature of Science	CHAS	Biology		editorial	
Edited	BIOL 3101	BIOL 3101: Human Anatomy and Physiology I	CHAS	Biology		editorial	
Edited	BIOL 3102	BIOL 3102: Human Anatomy and Physiology II	CHAS	Biology		editorial	
Edited	BIOL 3106	BIOL 3106: Vertebrate Anatomy	CHAS	Biology		editorial	
Deleted	BIOL 3107	BIOL 3107: Environmental Physiology	CHAS	Biology			
Edited	BIOL 3108	BIOL 3108: Medical Histology	CHAS	Biology		editorial	
Added	BIOL 3109	BIOL 3109: Plants of North America	CHAS	Biology	5109		
Deleted	BIOL 3112	BIOL 3112: Invertebrate Zoology	CHAS	Biology			
Deleted	BIOL 3118	BIOL 3118: Marine Biology	CHAS	Biology			
Edited	BIOL 3147	BIOL 3147: Cancer and Emerging Infectious Diseases	CHAS	Biology		editorial	
Edited	BIOL 3170	BIOL 3170: Entomology	CHAS	Biology		editorial	
Deleted	BIOL 4121	BIOL 4121: Plant Biotechnology	CHAS	Biology	5121		
Deleted	BIOL 4122	BIOL 4122: Plant Physiology	CHAS	Biology	5122		
Deleted	BIOL 4127	BIOL 4127: Bioinformatics Applications for Biology	CHAS	Biology	5127		
Edited	BIOL 4137	BIOL 4137: Advanced Human Physiology	CHAS	Biology	5137	editorial	
Edited	BIOL 4157	BIOL 4157: Biostatistics	CHAS	Biology	5157	editorial	
Deleted	BIOL 4166	BIOL 4166: Plant Systematics	CHAS	Biology	5166	substantive	
Edited	BIOL 4167	BIOL 4167: Conservation Biology	CHAS	Biology	5167	editorial	
Edited	CHEM 1610	CHEM 1610: Careers In Chemistry	CHAS	Chemistry & Biochemistry		editorial	
Added	CHEM 3305	CHEM 3305: Environmental Chemistry	CHAS	Chemistry & Biochemistry	5305		

Status	Code	Title	College	Department	Graduate Credit Course Number	Is this proposal editorial or substantive?	UNIFI Course?
Edited	CS ED 2310	CS ED 2310: Foundational Concepts in Computer Science	CHAS	Computer Science		editorial	
Edited	CS ED 4330	CS ED 4330: Methods for Teaching Computer Science	CHAS	Computer Science	5330	editorial	
Edited	EARTHSCI 1200	EARTHSCI 1200: Elements of Weather	CHAS	Earth & Environmental Sciences		editorial	Yes
Edited	EARTHSCI 1210	EARTHSCI 1210: Elements of Weather Laboratory	CHAS	Earth & Environmental Sciences		editorial	Yes
Edited	EARTHSCI 1300	EARTHSCI 1300: Introduction to Geology	CHAS	Earth & Environmental Sciences		editorial	Yes
Edited	EARTHSCI 1400	EARTHSCI 1400: Introduction to Environmental Earth Science	CHAS	Earth & Environmental Sciences		substantive	Yes
Deleted	EARTHSCI 1405	EARTHSCI 1405: Environmental Earth Science Laboratory	CHAS	Earth & Environmental Sciences			Yes
Deleted	EARTHSCI 3100	EARTHSCI 3100: Fundamentals of Astronomy	CHAS	Earth & Environmental Sciences	5100		
Edited	EARTHSCI 3120	EARTHSCI 3120: Planets	CHAS	Earth & Environmental Sciences	5120	editorial	
Edited	EARTHSCI 3150	EARTHSCI 3150: Naked-eye Astronomy	CHAS	Earth & Environmental Sciences		editorial	
Deleted	EARTHSCI 3200	EARTHSCI 3200: Fundamentals of Weather	CHAS	Earth & Environmental Sciences	5200		
Edited	EARTHSCI 3220	EARTHSCI 3220: Weather Analysis and Forecasting	CHAS	Earth & Environmental Sciences	5220	editorial	
Edited	EARTHSCI 3250	EARTHSCI 3250: Measurement and Analysis of Air Quality	CHAS	Earth & Environmental Sciences	5250	editorial	
Deleted	EARTHSCI 3300	EARTHSCI 3300: Fundamentals of Geology	CHAS	Earth & Environmental Sciences	5300		
Edited	EARTHSCI 3323	EARTHSCI 3323: Geochemistry of the Land	CHAS	Earth & Environmental Sciences		editorial	
Edited	EARTHSCI 3325	EARTHSCI 3325: Sedimentary Geology	CHAS	Earth & Environmental Sciences	5325	editorial	
Edited	EARTHSCI 3327	EARTHSCI 3327: Paleoclimatology	CHAS	Earth & Environmental Sciences	5327	editorial	
Edited	EARTHSCI 3336	EARTHSCI 3336: Natural Resources and Civilizations	CHAS	Earth & Environmental Sciences		editorial	Yes
Edited	EARTHSCI 3340	EARTHSCI 3340: Oceanography	CHAS	Earth & Environmental Sciences	5340	editorial	
Added	EARTHSCI 3367	EARTHSCI 3367: Global Water Environment	CHAS	Earth & Environmental Sciences			Yes
Edited	MATH 3302	MATH 3302: Field Experience in Teaching Secondary Mathematics	CHAS	Mathematics		editorial	
Edited	MATH 3751	MATH 3751: Probability and Statistics	CHAS	Mathematics		editorial	
Added	MATH 6520	MATH 6520: Complex Functions and Solving Polynomial Equations	CHAS	Mathematics			

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Edited	STAT 3751	STAT 3751: Probability and Statistics	CHAS	Mathematics		editorial	
Added	STAT 4786	STAT 4786: Statistics for Risk Modeling	CHAS	Mathematics	5786		
Edited	PHYSICS 2700	PHYSICS 2700: Mathematical Methods of Physics & Engineering	CHAS	Physics		substantive	
Edited	PHYSICS 3030	PHYSICS 3030: Robotics and Sensors	CHAS	Physics		editorial	
Added	PHYSICS 4500	PHYSICS 4500: Biological Physics	CHAS	Physics	5500		
Edited	PHYSICS 4750	PHYSICS 4750: Physics of Modern Materials	CHAS	Physics	5750	editorial	
Added	PHYSICS 4760	PHYSICS 4760: Computational Materials Science	CHAS	Physics	5760		
Edited	PHYSICS 4900	PHYSICS 4900: Thermodynamics and Statistical Mechanics	CHAS	Physics	5900	editorial	

Graduate:

Status	Code	Title	College	Department	Graduate Credit Course Number	Is this proposal editorial or substantive?
Added	ENGR 4235	ENGR 4235: Material Transformations & Modeling	CHAS	Applied Engineering & Technical Management	5235	
Edited	TECH 3131	TECH 3131: Technical Project Management	CHAS	Applied Engineering & Technical Management	5131	substantive
Edited	TECH 3160	TECH 3160: Computer-Aided Instrumentation and Interfacing	CHAS	Applied Engineering & Technical Management	5160	editorial
Deleted	TECH 3166	TECH 3166: Advanced Electrical Power Systems	CHAS	Applied Engineering & Technical Management	5166	
Deleted	TECH 4158	TECH 4158: Graphic Communication Data Visualization	CHAS	Applied Engineering & Technical Management	5158	
Edited	TECH 4165	TECH 4165: Wireless Communication Networks	CHAS	Applied Engineering & Technical Management	5165	editorial
Edited	TECH 4167	TECH 4167: Power Electronics Applications	CHAS	Applied Engineering & Technical Management	5167	editorial
Deleted	TECH 4290	TECH 4290: Project Lead The Way: Digital Electronics	CHAS	Applied Engineering & Technical Management	5290	
Added	TECH 6230	TECH 6230: Special Topics in Applied Engineering	CHAS	Applied Engineering & Technical Management		
Edited	TECH 6292	TECH 6292: Research Methods in Technology	CHAS	Applied Engineering & Technical Management		editorial

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Edited	TECH 6300	TECH 6300: Advanced Technical Project Management for Engineering and Technology	CHAS	Applied Engineering & Technical Management		editorial
Edited	TECH 6400	TECH 6400: Introduction to Applied Systems Development & Mgmt	CHAS	Applied Engineering & Technical Management		editorial
Edited	TECH 6420	TECH 6420: Systems Architecture & Management	CHAS	Applied Engineering & Technical Management		editorial
Edited	TECH 6440	TECH 6440: Systems Engineering & Management	CHAS	Applied Engineering & Technical Management		editorial
Edited	TECH 6460	TECH 6460: Systems Life Cycle Management & Applications	CHAS	Applied Engineering & Technical Management		editorial
Edited	TECH 6500	TECH 6500: Applied Systems Development & Management Capstone	CHAS	Applied Engineering & Technical Management		editorial
Deleted	TECH CM 4050	TECH CM 4050: Construction Management	CHAS	Applied Engineering & Technical Management	5050	
Added	BIOL 3109	BIOL 3109: Plants of North America	CHAS	Biology	5109	
Deleted	BIOL 4121	BIOL 4121: Plant Biotechnology	CHAS	Biology	5121	
Deleted	BIOL 4122	BIOL 4122: Plant Physiology	CHAS	Biology	5122	
Deleted	BIOL 4127	BIOL 4127: Bioinformatics Applications for Biology	CHAS	Biology	5127	
Edited	BIOL 4137	BIOL 4137: Advanced Human Physiology	CHAS	Biology	5137	editorial
Edited	BIOL 4157	BIOL 4157: Biostatistics	CHAS	Biology	5157	editorial
Deleted	BIOL 4166	BIOL 4166: Plant Systematics	CHAS	Biology	5166	substantive
Edited	BIOL 4167	BIOL 4167: Conservation Biology	CHAS	Biology	5167	editorial
Added	CHEM 3305	CHEM 3305: Environmental Chemistry	CHAS	Chemistry & Biochemistry	5305	
Edited	CS ED 4330	CS ED 4330: Methods for Teaching Computer Science	CHAS	Computer Science	5330	editorial
Deleted	EARTHSCI 3100	EARTHSCI 3100: Fundamentals of Astronomy	CHAS	Earth Science	5100	
Edited	EARTHSCI 3120	EARTHSCI 3120: Planets	CHAS	Earth Science	5120	editorial
Deleted	EARTHSCI 3200	EARTHSCI 3200: Fundamentals of Weather	CHAS	Earth Science	5200	
Edited	EARTHSCI 3220	EARTHSCI 3220: Weather Analysis and Forecasting	CHAS	Earth Science	5220	editorial
Edited	EARTHSCI 3250	EARTHSCI 3250: Measurement and Analysis of Air Quality	CHAS	Earth Science	5250	editorial
Deleted	EARTHSCI 3300	EARTHSCI 3300: Fundamentals of Geology	CHAS	Earth Science	5300	
Edited	EARTHSCI 3325	EARTHSCI 3325: Sedimentary Geology	CHAS	Earth Science	5325	editorial

Status	Code	Title	College	Department	Graduate Credit Course Number	Is this proposal editorial or substantive?
Edited	EARTHSCI 3327	EARTHSCI 3327: Paleoclimatology	CHAS	Earth & Environmental Sciences	5327	editorial
Edited	EARTHSCI 3340	EARTHSCI 3340: Oceanography	CHAS	Earth & Environmental Sciences	5340	editorial
Added	ACT SCI 6735	ACT SCI 6735: Advanced Actuarial Mathematics	CHAS	Mathematics		
Added	ACT SCI 6784	ACT SCI 6784: Predictive Analytics in Insurance I	CHAS	Mathematics		
Added	ACT SCI 6785	ACT SCI 6785: Predictive Analytics in Insurance II	CHAS	Mathematics		
Added	ACT SCI 6788	ACT SCI 6788: Advanced Loss Models	CHAS	Mathematics		
Added	STAT 4786	STAT 4786: Statistics for Risk Modeling	CHAS	Mathematics	5786	
Added	PHYSICS 4500	PHYSICS 4500: Biological Physics	CHAS	Physics	5500	
Edited	PHYSICS 4750	PHYSICS 4750: Physics of Modern Materials	CHAS	Physics	5750	editorial
Added	PHYSICS 4760	PHYSICS 4760: Computational Materials Science	CHAS	Physics	5760	
Edited	PHYSICS 4900	PHYSICS 4900: Thermodynamics and Statistical Mechanics	CHAS	Physics	5900	editorial