

# PATHWAYS COURSE CATALOG - "AT-A-GLANCE" VERSION

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## 1- Discourse

Credit hours: 9 credits: 6 foundational + 3 advanced/applied

### Foundational (1f)

COMM 1015	Communication Skills	Minor	ENGL 1105	First-Year Writing	Prereq	GER 3106	Gram/Comp/Conv	Prereq
COMM 1016	Communication Skills	Prereq Minor	FR 3105	Gram/Composition/Conv	Prereq	SPAN 3105	Gram/Comp/Conv	Prereq
COMM 2754H	Topics in Tech Innovation	Prereq 2x	FR 3106	Gram/Composition/Conv	Prereq	SPAN 3106	Gram/Comp/Conv	Prereq
ENGL 1105	First-Year Writing		GER 3105	Gram/Comp/Conv	Prereq			

### Advanced/Applied (1a)

AINS 2414	Identity & Inclusion in Agric	Prereq 2x	ENGL 2744	Intro to Creative Writing	Prereq	LAR 4034	Evol of the Am Land	Minor
ALCE 2414	Identity & Inclusion in Agric	Prereq 2x	ENGL 3024	Religion and Literature		ME 3024	Engineering Design & Econ	Prereq
ALCE 3624	Comm Ag & Life Sci in Writing	Prereq Minor	ENGL 3134	Gender and Linguistics	Prereq Minor	ME 3034	Mech Engineering Discourse	Prereq
ALCE 3634	Comm Ag & Life Sci in Speaking	Prereq Minor	ENGL 3144	Language & Ethnicity in the US	Prereq Minor	ME 4015	Engineering Design & Project	Prereq
ALS 2204	Intro Civic Agriculture	Minor	ENGL 3534	Literature and the Environment	Prereq Minor	ME 4016	Engineering Design & Project	Prereq
ALS 2604	Intro to Research Practices		ENGL 3694	Topics in World Novels	Prereq	ME 4984A	Special Study	
ALS 4244	Capstone Global Food Security	Prereq Minor	ENGL 3764	Technical Writing	Prereq	MGT 4334	Ethical Leadership	Prereq Minor 2x
APS 4414	Issues in Appalachian Studies	Prereq Minor	ENGL 3844	Writing and Digital Media	Prereq Minor	MGT 4854	Analytics in Action	Prereq Minor
APSC 4004	Contemporary Issues in APSC	Prereq	ENGL 4144	Chaucer	Prereq	MINE 2544	Leadership Responsible Mining	Prereq
ART 4104	Interpretation of Visual Arts	Prereq Minor	ENGL 4164	Studies in Shakespeare	Prereq	MINE 4635	Mining Engineering Capstone	Prereq
BIT 4164	Future of Security	Prereq Minor	ESM 4015	Creative Design and Project	Prereq	MINE 4636	Mining Engineering Capstone	Prereq
BIT 4854	Analytics in Action	Prereq Minor	ESM 4016	Creative Design and Project	Prereq	MSE 2884	Matls Engr Professional Dev I	
BMES 2004	Concussion Perspectives	Minor	FR 3154	French for Natural Sciences	Prereq	MSE 3884	Matls Engr Professional Dev II	Prereq
BMES 4015	BME Senior Design and Project	Prereq	FREC 3524	Environmental Interpretation	Prereq	MSE 4085	Senior Capstone Recitation	Prereq
BMES 4016	BME Senior Design and Project	Prereq	FREC 3734	Forest Fiber Supply	Prereq	MSE 4086	Senior Capstone Recitation	Prereq
BMES 4984A	Special Study		FREC 4174	Climate Chng & Intl Policy	Prereq Minor	MSE 4984A	Special Study	
CAUS 4234	Capstone Collaborations	Prereq Minor	FREC 4454	Urban and Community Forestry	Prereq Minor	PHIL 4884	Adv Philosophy Politics Econ	Prereq Minor
CEE 2804	Introduction to CEE		GEOG 3274	Polar Environments	Prereq Minor	PR 3144	Writing and Editing for PR	Prereq
CEE 3304	Fluid Mech for CEE	Prereq	GEOS 4024	Senior Seminar	Prereq	PSCI 4164	Future of Security	Prereq Minor
CEE 4804	Prof & Legal Issues Civil Eng	Prereq Minor	HIST 2624	Topics Hist Data Soc Context	Minor	PSCI 4174	Climate Chng & Intl Policy	Prereq Minor
CEM 2104	Intro to CEM		HIST 3054	The American Civil War	Minor	PSCI 4884	Adv Philosophy Politics Econ	Prereq Minor
CEM 3084	Construction Economy	Prereq	HIST 3714	War and Medicine	Minor	RLCL 2504	Intro Amer Studies	
CEM 4445	CEM Capstone	Prereq	HUM 2504	Intro Amer Studies		RLCL 3024	Religion and Literature	
CEM 4446	CEM Capstone	Prereq	HUM 3034	Theories of Popular Culture	2x	RLCL 3034	Theories of Popular Culture	2x
CMST 3214	Professional Communication	Prereq Minor	HUM 3034H	Theories of Popular Culture	2x	RLCL 3034H	Theories of Popular Culture	2x
COMM 2004	Public Speaking	Prereq Minor	HUM 4414	Issues in Appalachian Studies	Prereq Minor	RLCL 3144	Language & Ethnicity in the US	Prereq Minor
COMM 2764H	Topics in Tech Innovation	Prereq	IS 2004	Res & Writing in Intl Studies		SOC 3144	Language & Ethnicity in the US	Prereq Minor
CS 4164	Future of Security	Prereq Minor	IS 4174	Climate Chng & Intl Policy	Prereq	SPAN 3154	Spanish for Natural Sciences	Prereq
ECE 4805	Senior Design Project	Prereq	ISE 3034	Tech Comm for Engineers	Prereq	SPIA 4784	Community Systems Capstone	Prereq
ECE 4806	Senior Design Project	Prereq	ISE 4984A	Special Study		STL 4314	Current Topics in STL	Prereq Minor
ECE 4984A	Special Study		ITAL 3305	Intro to Ital Lit in Context	Prereq	TA 2404	Intro App Collaborative Tech	Minor
ECON 4884	Adv Philosophy Politics Econ	Prereq Minor	ITAL 3306	Intro to Ital Lit in Context	Prereq	UH 2504	Discourse & Global Citizenship	
EDCT 4004	International Workforce Dev		ITAL 3474	Topics in Italian Cinema		WGS 3134	Gender and Linguistics	Prereq Minor
ENGL 2634	Writing and Social Justice	Prereq Minor 2x	JMC 3154	Multimedia Reporting	Prereq			





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## 2 - Critical Thinking in the Humanities (continued)

ITAL	3306	Intro to Ital Lit in Context	Prereq	RLCL	1004H	Intro to Religion & Culture	Minor	SPAN	3484	Mod Andean/S Cone Cult Lit	Prereq	
ITAL	3474	Topics in Italian Cinema		RLCL	1014	World Religions		SPAN	3514	Span Medical Professions	Prereq	2x
JUD	2134	Judaism		RLCL	1024	Judaism, Christianity, Islam		SPAN	3534	Spanish Business Professions	Prereq	2x
JUD	2414	Hebrew Bible/Old Testament		RLCL	1034	Religion and the Modern World		SPAN	3564	Community Through Service	Prereq	2x
LAR	2554	Leading Global Sustainability	Minor	RLCL	1044	Religious Ethics		STL	4324	Global Aspects of IP	Prereq	Minor
LAR	4034	Evol of the Am Land	Minor	RLCL	1134	Ancient Mediterranean World		STS	1504	Intro Science, Tech, Society	Minor	
MGT	2204	Global Business of Pop Culture	Minor 2x	RLCL	1214	The Medieval World		STS	2034	Intro to Technology and Race		2x
MGT	4324	Bus and Prof Ethics	Minor	RLCL	1904	Religion and Culture In Asia		STS	2054	Engineering Cultures		
MUS	2115	Survey of Western Music		RLCL	1904H	Religion and Culture In Asia		STS	2154	The Life Sciences and Society	Minor	
MUS	2116	Survey of Western Music		RLCL	2124	Religion in American Life	2x	STS	2254	Innovation in Context	Minor	
MUS	3164	History of Electronic Music		RLCL	2134	Judaism		STS	2444	Global Sci & Tech Policy	Minor	
MUS	3164H	History of Electronic Music		RLCL	2134	Race & Gender in Rel & Cult	Minor 2x	STS	2454	Science Tech & Environment	Minor	
NR	2554	Leading Global Sustainability	Minor	RLCL	2324	Islam		STS	2604	Intro Data in Social Context	Minor	
PHIL	1204	Knowledge and Reality		RLCL	2374	Gods and Kings in India		STS	3104	Sci & Tech in Modern Society	Minor	
PHIL	1304	Morality and Justice	Minor	RLCL	2384	Gandhi and Modern India		STS	3284	Technology and Disability	Minor	
PHIL	1304H	Morality and Justice	Minor	RLCL	2414	Hebrew Bible/Old Testament		STS	3314	Medical Dilemmas & Hum Exper	Minor	
PHIL	2115	Ancient/Medieval Philosophy		RLCL	2424	New Testament		STS	3334	Energy and Society	Minor	
PHIL	2116	Ancient/Medieval Philosophy		RLCL	2444	Greek and Roman Mythology		TA	2014	Introduction to Theatre		
PHIL	2125	History of Modern Philosophy		RLCL	2484	Religion and Politics	2x	TA	2024	Introduction to Acting	Minor	
PHIL	2126	History of Modern Philosophy		RLCL	2504	Intro Amer Studies		TA	2044	Contmpry African Amer Theatre	2x	
PHIL	2304	Global Ethics	Minor	RLCL	3024	Religion and Literature		UAP	3344	Global Environmental Issues	Minor	
PHIL	2314	Phil of Sex, Gender, Race	2x	RLCL	3214	Religion and Culture in India		UH	2554	Humanities & Global Citizenship		
PHIL	2894	Intro Philosophy Politics Econ	Minor	RLCL	3224	Religion in China and Japan		UH	2834	Hum Tech Innov Soc Impact		
PHIL	3015	Political Theory	Prereq Minor	RLCL	3414	Jesus in Earliest Christianity		WGS	1824	Intro Women's & Gender Studies	Minor	
PHIL	3016	Political Theory	Prereq Minor	RLCL	3424	Christian Orthodoxy and Heresy		WGS	2204	Race & Gender in Rel & Cult	Minor 2x	
PHIL	3024	Topics Philosophical Movements		RLCL	3454	Philosophy of Religion						
PHIL	3314	Ethical Theory	Prereq Minor	RUS	2734	Intro Rus Culture and Civ						
PHIL	3324	Biomedical Ethics		RUS	3304	Survey 19th Century Rus Lit	Prereq					
PHIL	3334	Ethics and Artific Intelligence	Minor	RUS	3314	Survey 20th Century Rus Lit	Prereq					
PHIL	3414	Aesthetics		RUS	3424	Topics Rus Lit in Eng	Prereq					
PHIL	3454	Philosophy of Religion		RUS	3434	The Works of Vladimir Nabokov	Prereq					
PHIL	4304	Political Philosophy	Prereq Minor	SOC	2604	Intro Data in Social Context	Minor					
PHIL	4324	Bus and Prof Ethics	Minor	SPAN	2744	Topics in Spanish Culture						
PHIL	4334	Jurisprudence	Prereq Minor	SPAN	2754	Topics in Spanish Am Culture						
PHIL	4884	Adv Philosophy Politics Econ	Prereq Minor	SPAN	2764	Intro Latino American Studies	Minor					
PSCI	2484	Religion and Politics	2x	SPAN	2774	Minority Lang & Span Context	Minor					
PSCI	2894	Intro Philosophy Politics Econ	Minor	SPAN	3304	Intro Hispanic Literature	Prereq					
PSCI	3015	Political Theory	Prereq Minor	SPAN	3404	Early Penin Culture & Lit	Prereq					
PSCI	3016	Political Theory	Prereq Minor	SPAN	3414	Modern Penin Culture & Lit	Prereq					
PSCI	3344	Global Environmental Issues	Minor	SPAN	3444	Early Span-Am Culture & Lit	Prereq					
PSCI	4884	Adv Philosophy Politics Econ	Prereq Minor	SPAN	3464	Mod Mex/Central Am Cult Lt	Prereq					
RLCL	1004	Intro to Religion & Culture	Minor	SPAN	3474	Mod Span Caribbean Cult Lit	Prereq					



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## 3 - Reasoning in the Social Sciences

Credit hours: 6 credits

AAEC	1005	Econ Food Fiber Sys	Minor	ENGL	1514	Language and Society	Minor	2x	HIST	2534	America at War	2x			
AAEC	1006	Econ Food Fiber Syst	Minor	ENGL	3144	Language & Ethnicity in the US	Prereq	Minor	HIST	2715	History of Technology	Minor			
AAEC	1264	Peace Economics	Minor	FIN	4014	Cyberlaw and Policy	Prereq	Minor	HIST	2716	History of Technology	Minor			
AAEC	3204	Intl Agri Dvlp & Trad	Prereq	Minor	FIW	2234	Fish, Fishing, & Conservation	Minor	HIST	3114	History of Capitalism	Minor			
AAEC	3324	Environ Sustain Dev Econ	Prereq	Minor	2x	FIW	2514	Fish Wildlife Conserv Policy	Prereq	Minor	HIST	3144	American Environmental History	Minor	
AAEC	4464	Water Resources Policy & Econ	Prereq	Minor	2x	FIW	4114	Biodiversity Conservation	Prereq	Minor	HIST	3304	World of Alexander the Great		
ADV	2134	Intro to Health Communication	Minor	FR	2714	French Culture & Civ			HIST	3374	French Empire				
AFST	1714	Intro African American Studies	Minor	2x	FREC	2124	Forests, Society & Climate	Minor	HIST	3544	World War II	Minor			
AFST	1814	Intro to African Studies			FREC	2554	Leading Global Sustainability	Minor	HIST	3554	Age of Globalization	Minor			
AFST	3864	Development and Hum in Africa	Minor	FREC	4134	Forest Carbon Mgt & Policy			HIST	3564	The Cold War	Minor			
AHRM	2404	Consumer Rights			FREC	4174	Climate Chng & Intl Policy	Prereq	Minor	HIST	3724	Disease, Med, & Health	Minor	2x	
AINS	1104	Intro American Indian Studies	Minor	FREC	4464	Water Resources Policy & Econ	Prereq	Minor	2x	HIST	3864	Development and Hum in Africa	Minor		
ALCE	3014	Leadership Effectiveness in Ag	Prereq	Minor	FREC	4554	Creating the Ecological City	Prereq	Minor	HNFE	2314	Active Transp for Health	Minor		
ALS	4204	Concepts Comm Food Systems	Prereq	Minor	GEOG	1004	Intro Human Geography			HNFE	2664	Behav Theory in Hlth Promotion	Minor		
ARBC	2774	Arab Culture and Civilization			GEOG	1014	World Regions	Minor	HORT	2184	Plants Places Culture Globally	Minor			
ARCH	1044	Life in the Built Environment		2x	GEOG	1114	Seeking Sustainability	Minor	HORT	4554	Creating the Ecological City	Prereq	Minor		
ART	3174	Introduction to Archaeology	Minor		GEOG	1116	Seeking Sustainability	Prereq	Minor	HTM	2454	Travel & Tourism Management	Minor		
BDS	2005	Fundamentals of BDS	Minor		GEOG	2004	Water, Environment & Society	Minor	HTM	2464	Introduction to Service				
BDS	2006	Fundamentals of BDS	Prereq	Minor	GEOG	2054	Introduction to World Politics	Minor	HTM	3484	Socio-Cult Impacts of Tourism	Minor			
BDS	3134	Choice and Behavior	Prereq		GEOG	2064	Global Econ and World Politics	Minor	HUM	3204	Multicultural Communication	Minor			
BIT	2164	Foundations Security Environ	Minor		GEOG	2244	Sustainable Urbanization	Minor	IDS	4094	Startup: Commercialization	Minor			
BSE	4554	Creating the Ecological City	Prereq	Minor	GEOG	3104	Environ Prob Pop Dev	Minor	IS	1004	Nations and Nationalities	2x			
CMST	2134	Intro to Health Communication			GEOG	3104	Environ Prob Pop Dev	Minor	IS	2054	Introduction to World Politics	Minor			
COMM	1014	Introduction to Communication			GEOG	4074	Medical Geography	Prereq	Minor	IS	2064	Global Econ and World Politics	Minor		
COMM	2084	Media and Society	Minor		GER	2724	German Culture & Civ			IS	3864	Development and Hum in Africa	Minor		
CRIM	4474	Cyber Criminology	Prereq	Minor	HD	1004	Human Development I	Minor	IS	4174	Climate Chng & Intl Policy	Prereq			
CS	2164	Foundations Security Environ	Minor		HD	1984C	Special Study			JMC	2074	Introduction to Sports Media			
ECON	1104	Economics of Gender	Minor	2x	HD	2004	HD II: Adulthood & Aging	Minor	LAR	2554	Leading Global Sustainability	Minor			
ECON	1204	Economics of Race	Minor	2x	HD	2014	Integrative Health Practices	Minor	2x	LAR	3264	People Community and Place	Prereq	Minor	
ECON	1214	Econ Hist: Diversity&Inclusion	Minor	2x	HD	2314	Human Sexuality			LAR	4554	Creating the Ecological City	Prereq	Minor	
ECON	2005	Principles of Economics	Minor		HD	3144	Educ Excptnl Learners	Minor		LDRS	1414	Citizen Leadership			
ECON	2006	Principles of Economics	Prereq	Minor	HD	3954C	Study Abroad			LDRS	1424	Citizen Leadership Praxis	Prereq		
ECON	2894	Intro Philosophy Politics Econ	Minor		HIST	1025	Intro to European History			LDRS	2014	Principles of Peer Leadership			
ECON	3034	Poverty and Discrimination	Prereq	Minor	2x	HIST	1026	Intro to European History		LDRS	3304	Elements of Team Leadership	Prereq	Minor	
ECON	3134	Choice and Behavior	Prereq		HIST	1215	Intro to World History			MGT	2064	Foundations Entrepreneurship			
EDCI	2614	The Reading Mind			HIST	1216	Intro to World History			MGT	2354	Leadership: Mgr & Entrepreneur	Prereq	Minor	
EDCI	2674	Language, Culture, & Learning		2x	HIST	1224	Conquest Culture in Lat Am Emp			MGT	3444	Multi Diversity in Orgs	Prereq	Minor	2x
EDCI	3024	Issues of Schooling in the US		2x	HIST	1354	Conflict Security in East Asia	Minor		MGT	4094	Startup: Commercialization	Minor		
EDCI	3144	Educ Excptnl Learners	Minor		HIST	1515	History of Africa			MN	4005	Leadership & Mgt/Ethics	Prereq	Minor	
EDCO	2004	Healthy Relationships	Minor	2x	HIST	1516	History of Africa			MN	4006	Leadership & Mgt/Ethics	Prereq	Minor	
EDEP	2444	Motivating Yourself and Others	Minor		HIST	1764	History of Rock 'n' Roll	2x		NR	1115	Seeking Sustainability	Minor		
ENGE	1644	Global STEM Practice	Minor		HIST	2054	Engineering Cultures			NR	1116	Seeking Sustainability	Prereq	Minor	
ENGE	4094	Startup: Commercialization	Minor		HIST	2484	Modern Germany			NR	2554	Leading Global Sustainability	Minor		
ENGL	1504	Introduction to Linguistics	Minor		HIST	2514	U.S. Food History	2x		PHIL	2894	Intro Philosophy Politics Econ	Minor		
					HIST	2524	History of Agriculture								

**Prereq** Course has prerequisites or class restriction. Consult the [timetable](#).

**2x** Course double-counts for Concept 7.

**Minor** Course is part of a [Pathways Minor](#). Consult the [minor checksheets](#).



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## 3 - Reasoning in the Social Sciences (continued)

PM 4744	Housing Challenges & Policies	Minor 2x	RLCL 1004H	Intro to Religion & Culture	Minor	SPIA 1024	Community Service Learning	Minor
PR 2044	Principles of Public Relations	Minor	RLCL 2054	Ethnography: Studying Culture	Minor	SPIA 1044	Life in the Built Environment	2x
PSCI 1004	Nations and Nationalities	2x	RLCL 2464	Religion and Science		SPIA 2024	Community Systems Thinking	
PSCI 1014	US Gov & Politics	Minor 2x	RLCL 2514	Asian American Experience		SPIA 2244	Sustainable Urbanization	Minor
PSCI 1024	Comp Gov & Politics	Minor	RLCL 3144	Language & Ethnicity in the US	Prereq	SPIA 2314	Active Transp for Health	Minor
PSCI 2054	Introduction to World Politics	Minor	RLCL 3204	Multicultural Communication	Minor	SPIA 2554	Collaborative Policy & Plan	Minor 2x
PSCI 2064	Global Econ and World Politics	Minor	SOC 1004	Introductory Sociology	Minor 2x	SPIA 4554	Creating the Ecological City	Prereq
PSCI 2164	Foundations Security Environ	Minor	SOC 1014	Intro Social Anthrop		STL 2304	Foundations of STL	Prereq
PSCI 2894	Intro Philosophy Politics Econ	Minor	SOC 2004	Social Problems	Minor 2x	STS 1504	Intro Science, Tech, Society	Minor
PSCI 3015	Political Theory	Prereq	SOC 2014	Soc. Intimate Relationships	2x	STS 2054	Engineering Cultures	
PSCI 3016	Political Theory	Prereq	SOC 2024	Soc of Race and Ethnicity	2x	STS 2444	Global Sci & Tech Policy	Minor
PSCI 4174	Climate Chng & Intl Policy	Prereq	SOC 2034	Diversity Comm Engagement	Minor 2x	STS 2464	Religion and Science	
PSVP 2044	Peace and Violence	Minor	SOC 2054	Ethnography: Studying Culture	Minor	STS 2715	History of Technology	Minor
PSYC 1004	Introductory Psychology	Minor	SOC 2304	Individual in Society		STS 2716	History of Technology	Minor
PSYC 2034	Developmental Psychology	Prereq	SOC 2514	Asian American Experience		STS 3334	Energy and Society	Minor
PSYC 2044	Psychology of Learning	Prereq	SOC 3144	Language & Ethnicity in the US	Prereq	UAP 1024	Leadership Service Pub Probs	Minor
PSYC 2084	Social Psychology	Prereq	SOC 3314	Social Movements	Prereq	UH 2544	Soc Sci & Global Citizenship	
PSYC 3014	Abnormal Psychology	Prereq	SOC 3404	Environmental Justice	Minor 2x	UH 2814	Soc Sci Tech Innov Soc Impact	
PSYC 3024	Human Behaviors Nat Environ	Prereq	SPAN 2764	Intro Latino American Studies	Minor	UNIV 1824	Pathways to Success Exploring	
RED 4604	Environ & Sustain Housing	Minor 2x	SPAN 2774	Minority Lang & Span Context	Minor	WATR 2004	Water, Environment, & Society	Minor
RED 4604H	Environ & Sustain Housing	Minor 2x	SPAN 3494	Intro to Hispanic Linguistics	Prereq	WATR 4464	Water Resources Policy & Econ	Prereq
RLCL 1004	Intro to Religion & Culture	Minor	SPAN 3544	Sounds of Spanish	Prereq	WGS 1824	Intro Women's & Gender Studies	Minor

## 4 - Reasoning in the Natural Sciences

Credit hours: 6 credit hours (with 2 additional lab credits for students in some majors)

ALS 3404	Ecological Agriculture	Minor	CHEM 1036	General Chemistry	Prereq	GEOG 1524	Intro Earth's Climate	Minor
BIOL 1014	Introduction to Biology		CHEM 1045	General Chemistry Laboratory		GEOS 1004	Introduction to Earth Science	Minor
BIOL 1024	Cancer Causes Treatments Costs		CHEM 1046	General Chemistry Laboratory		GEOS 1014	Evolution of Earth-Life System	
BIOL 1034	Biology of Sex		CHEM 3054	Postconsumer Materials	Minor	GEOS 1024	Earth Resources, Soc, & Env	Minor
BIOL 1054	Human Biol: Cncpts Curr Issues		CSES 2244	Ag Global Food Sec and Health	Minor	GEOS 1034	Earth's Natural Hazards	Minor
BIOL 1064	Plants and Civilizations		EDCI 2414	Design Based Biotech Learning		GEOS 1054	Age of Dinosaurs	
BIOL 1074	How Animals Think		ENSC 1015	Found Environ Science	Minor	GEOS 1064	Climate History	Minor
BIOL 1105	Principles of Biology		ENSC 1016	Found Environ Science	Minor	GEOS 1104	Intro to Earth Sciences Lab	
BIOL 1106	Principles of Biology		ENT 2004	Insects and Human Society		GEOS 1124	Earth Res, Society & Env. Lab	
BIOL 29844	Special Study		ENT 2804	Bees: Biol, Diversity, Sustain		GEOS 2014	Mission to the Planets	
BIOL 2984D	Special Study		FIW 2114	Prin Fish and Wildlife	Minor	HORT 2134	Plants & Greenspaces Urban Com	Minor
BMES 2004	Concussion Perspectives	Minor	FIW 2234	Fish, Fishing, & Conservation	Minor	ISC 1005	Integrated Sci Reasoning	
CHEM 1015	Chemistry in Context	Minor	FIW 4114	Biodiversity Conservation	Prereq	ISC 1006	Integrated Sci Reasoning	
CHEM 1016	Chemistry in Context	Minor	FREC 2004	Forest Ecosystems	Minor	ISC 1105	Integrated Science I	
CHEM 1025	Chemistry in Context Lab		FREC 2114	Ecology of Appalachian Forests	Minor	ISC 1106	Integrated Science I	Prereq
CHEM 1026	Chemistry in Context Lab		FREC 2124	Forests, Society & Climate	Minor	ISC 1106H	Integrated Science I	Prereq
CHEM 1035	General Chemistry		FREC 2134	Plants & Greenspaces Urban Com	Minor	ISC 1115	Integrated Science Lab I	



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## 4 - Reasoning in the Natural Sciences (continued)

ISC	1116	Integrated Science Lab I	Prereq	PHYS	1055	Introduction to Astronomy		PHYS	2305	Foundations of Physics	Prereq
LAR	1254	Environment & Natural Systems	Minor	PHYS	1056	Introduction to Astronomy		PHYS	2306	Foundations of Physics	Prereq
MINE	2114	Energy and Raw Materials	Minor	PHYS	2074	Contemporary Physics		PPWS	2004	Mysterious Mushrooms & Molds	
MSE	1014	Mat Science Everyday Life	Minor	PHYS	2205	General Physics	Prereq	PPWS	2754	Weeds That Shape Our World	
MSE	2984D	Special Study		PHYS	2206	General Physics	Prereq	PSYC	2064	Intro Neuroscience of Behavior	Prereq Minor
NEUR	2464	Neuroscience and Society	Minor	PHYS	2215	General Physics Laboratory		SPEs	2004	Cannabis Sci Ind & Culture	
PHIL	1604	How Science Works		PHYS	2216	General Physics Laboratory	Prereq	UH	2524	Nat Sci & Global Citizenship	

## 5 - Quantitative and Computational Thinking

Credit hours: 9 credits: 6 Foundational + 3 advanced/applied

Foundational (5f)											
ACIS	1004	Accounting Foundation	Minor	FREC	1004	Digital Planet	Minor	MATH	1524	Business Calculus	Prereq
ART	2434	Introduction to Creative Code	Prereq	GEOG	1084	Digital Planet	Minor	MATH	1535	Geometry Mathematics of Design	Prereq
BIT	2164	Foundations Security Environ	Minor	HD	2104	Quantitative Comm Research	Minor	MATH	1536	Geometry Mathematics of Design	Prereq
BIT	2404	Multicultural Prob Analytics	Prereq Minor	HIST	2604	Intro Data in Social Context	Minor	MGT	2404	Multicultural Prob Analytics	Prereq Minor
BIT	2405	Bus Stats Analytics & Model	Prereq	ISC	1105	Integrated Science I		PHIL	1604	How Science Works	
CONS	2304	Consumer and Family Finances	Minor	ISC	1106	Integrated Science I	Prereq	PSCI	2164	Foundations Security Environ	Minor
CS	1014	Intro Computational Thinking	Minor	ISC	1106H	Integrated Science I	Prereq	REAL	2034	Real Estate Data Analysis	Prereq Minor
CS	1054	Intro to Programming in Java	Minor	LAR	1254	Environment & Natural Systems	Minor	SOC	2104	Quantitative Community Researc	Minor
CS	1064	Intro to Programming in Python	Minor	MATH	1014	Precalc with Transcendental	Prereq	SOC	2604	Intro Data in Social Context	Minor
CS	2164	Foundations Security Environ	Minor	MATH	1025	Elementary Calculus	Minor	STAT	1014	Data in Our Lives	Minor
ENGL	2034	Analyzing Sounds of Language	Prereq Minor	MATH	1026	Elementary Calculus	Prereq Minor	STAT	2004	Introductory Statistics	Prereq
FIN	2114	Invest & Financial Literacy		MATH	1225	Calculus of a Single Variable		STS	2604	Intro Data in Social Context	Minor
				MATH	1226	Calculus of a Single Variable	Prereq	UH	2744	Topics Comp Tech Soc Innov	Prereq

## Advanced/Applied (5a)

AAEC	2104	Personal Financial Planning		ECON	3054	Introduction to Forecasting	Prereq	MATH	2214H	Intro Diff Equations	Prereq
ALS	3104	Animal Breeding and Genetics	Prereq	EDCI	4244	Curr & Instr Middle Math 4-8		PSYC	4194	Predicting Social Behavior	Prereq
ART	3114	Creative Code	Prereq	ENGE	4104	Applied Exploration Innovation	Prereq	SBIO	2504	Circular Economy Analytics	Prereq
BDS	4194	Predicting Social Behavior	Prereq	ENGL	4074	Syntax	Prereq Minor	SPIA	2005	Intro to Urban Analytics	Minor
BIT	2406	Bus Stats Analytics & Model	Prereq	ENGL	4144	Phonology	Prereq Minor	SPIA	2006	Intro to Urban Analytics	Minor
CEE	3804	Computer Applications for CEE		FREC	3004	Environmental Informatics	Prereq Minor	SPIA	2104	Urban Analytics for Decisions	Minor
CMDA	2014	Data Matter	Prereq Minor	FREC	3214	Forest Biometrics	Prereq	SPIA	4464	Data & Art of Policy and Plans	Minor
CMDA	2984E	Special Study		FREC	4354	Forest Soil and Watershed Mgmt	Prereq Minor	STAT	3005	Statistical Methods	Prereq
CMDA	4864	Comp Mod Dta Analyt Capstone	Prereq	HD	3024	Community Analytics	Prereq Minor	STAT	3604	Statistics for Social Science	Prereq Minor
CS	2064	Intermediate Prog in Python	Prereq	HTM	4354	IT & Social Media in HTM	Prereq Minor	STAT	3615	Biological Statistics	Prereq
CS	3114	Data Structures and Algorithms	Prereq	LAR	3044	Land Analysis & Site Planning		UH	2514	QuantComp Think Global Citizen	
CS	2984E	Special Study		MATH	2214	Intro Diff Equations	Prereq	UH	2754	Adv Topic Comp Tech Soc Innov	Prereq
								UH	2764	Adv Topic Comp Engr Soc Innov	Prereq



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## 6 - Critique and Practice in Design and the Arts

Credit hours: 6 credits: 3 design + 3 arts, or 6 integrated design and arts

AHRM	1014	Design and Art for Consumers	Minor
AHRM	2014	Design for Consumers Studio	Prereq Minor
ALS	1004	Agriculture, the Arts and Society	Minor
ALS	1984L	Special Study	
ALS	2984L	Special Study	
ALS	4214	Capstone: Civic Ag Food Sys	Prereq Minor
APS	2124	Music Traditions in Appalachia	Minor
APS	2404	Folk Cultures in Appalachia	Minor 2x
ARCH	2114	Sustainability by Design	
ARCH	4514	Thesis Inquiry	Prereq
ARCH	4524	Thesis Documentation	Prereq
ART	1104	Language of Visual Arts	Minor
ART	1204	Principles of 2D Art & Design	
ART	1214	Principles of 3D Art & Design	
ART	1234	Topics in Design Non-Majors	Minor
ART	1404	Principles of Drawing	
ART	1604	Principles of 4D Art & Design	
BSE	4554	Creating the Ecological City	Prereq Minor
CEM	3074	Global Design and Construction	Prereq
CS	2114	Softw Des & Data Structures	Prereq

AHRM	1014	Design and Art for Consumers	Minor
ALS	1004	Agriculture, the Arts and Society	Minor
APS	2124	Music Traditions in Appalachia	Minor
APS	2404	Folk Cultures in Appalachia	Minor 2x
ARCH	4514	Thesis Inquiry	Prereq
ARCH	4524	Thesis Documentation	Prereq
ART	1004	Studio Art for Non-Majors	Minor
ART	1104	Language of Visual Arts	Minor
ART	1114	CT+E Play to Make	
ART	1204	Principles of 2D Art & Design	
ART	1214	Principles of 3D Art & Design	
ART	1334	Visual Arts and Culture	
ART	1404	Principles of Drawing	
ART	1504	Contemporary Art and Practice	
ART	1604	Principles of 4D Art & Design	
ART	1984M	Special Study	
ART	2385	Surv Hist West Art	Minor
ART	2386	Surv Hist West Art	Minor
ART	2514	Drawing Concepts	Prereq

### Design (6d)

EDCI	2414	Design Based Biotech Learning	
ENGE	1215	Foundations of Engineering	Minor
ENGE	1216	Foundations of Engineering	Prereq Minor
ENGE	1414	Foundations of Engr Practice	
ENGE	2094	Create!: Ideation & Innovation	Minor
ENGE	4104	Applied Exploration Innovation	Prereq
ENGL	2744	Intro to Creative Writing	Prereq
FMD	2014	Digital Drawing	
FMD	2224	Fashion Presentation Techniq.	Prereq
FREC	3364	Environmental Silviculture	Prereq Minor
FREC	4444	Integ Forest Mgt Practicum	Prereq
FREC	4554	Creating the Ecological City	Prereq Minor
GEOG	3314	Cartography	Minor
HORT	2164	Floral Design	Minor
HORT	4554	Creating the Ecological City	Prereq Minor
HTM	3424	Event Management	Prereq Minor
HUM	2404	Folk Cultures in Appalachia	Minor 2x
IDS	2124	History Modern Designers	
ITDS	1114	Design Appreciation	Minor
ITDS	1224	Intro to Interior Design	

### Arts (6a)

ART	2604	Intro to Creative Tech	Prereq
ART	3054	Islamic Art and Architecture	
ART	3064	Arts of China and Japan	
ART	3074	Egyptian Art and Architecture	
ART	3094	Early Mod Global Vis Culture	
ART	3184	Roman Art and Architecture	
ART	3284	Medieval Art and Architecture	
ART	3384	Renaissance Art	
ART	3484	Baroque Art and Arch	
ART	3584	19th Century Art	
ART	3674	History of Photography	
ART	3684	African-American Art	2x
ART	3884	American Art to 1914	2x
ART	4104	Interpretation of Visual Arts	Prereq Minor
BSE	4554	Creating the Ecological City	Prereq Minor
CAUS	1114	CT+E Play to Make	
DANC	2004	Anatomy for Performers	2x
DANC	2014	Introduction to Dance History	2x
DANC	2024	Intro to Dance Techniques	

ITDS	3114	Sustainable Design & Biophilia	Minor
LAR	1264	Understand Represent Landscape	Minor
LAR	2154	Landscape Architecture History	
LAR	4084	Land Design & Planning Studio	Prereq Minor
LAR	4154	Design Built Environment	
LAR	4554	Creating the Ecological City	Prereq Minor
MGT	2064	Foundations Entrepreneurship	
MUS	2124	Music Traditions in Appalachia	Minor
RED	2604	Residential Design	
RED	2654	Residential Environments	Prereq
RED	4664	Universal Design	Minor
SPIA	4554	Creating the Ecological City	Prereq Minor
STS	3284	Technology and Disability	Minor
TA	2204	Creative Dance	
TA	2404	Intro App Collaborative Tech	Minor
UAP	2114	Sustainability by Design	
UH	2534	Desn/Arts & Global Citizenship	
UH	2855	Calhoun Trans Fusion Studio	
UH	2856	Calhoun Trans Fusion Studio	Prereq

DANC	2104	Moving Body, Moving Mind	
DANC	3024	Int/Adv Dance Techniques	Prereq
ENGL	2744	Intro to Creative Writing	Prereq
FA	2004	Creativity & the Artistic Exp	Minor
FREC	4554	Creating the Ecological City	Prereq Minor
GER	3474	Topics in German Cinema	
HNFE	2104	Moving Body, Moving Mind	
HORT	2164	Floral Design	Minor
HORT	4554	Creating the Ecological City	Prereq Minor
HUM	1604	Intro Hum and Arts	
HUM	2204	The Creative Process	
HUM	2404	Folk Cultures in Appalachia	Minor 2x
IDS	1114	CT+E Play to Make	
IDS	2114	History of Industrial Design	
ITDS	1114	Design Appreciation	Minor
LAR	1264	Understand Represent Landscape	Minor
LAR	4154	Design Built Environment	
LAR	4554	Creating the Ecological City	Prereq Minor
MUS	1104	Music Appreciation	



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## 6 - Critique and Practice in Design and the Arts (Arts, continued)

MUS 1114	Listening in the Digital Age		MUS 3314	Instrumental Ensemble Music	Minor	TA 2204	Creative Dance	
MUS 1124	Living a Musical Life	2x	MUS 3414	Choral Ensemble Music	Minor	TA 2404	Intro App Collaborative Tech	Minor
MUS 2115	Survey of Western Music		MUS 3814	Jazz History		TA 2984M	Special Study	
MUS 2116	Survey of Western Music		SPIA 4554	Creating the Ecological City	Prereq Minor	TA 3984M	Special Study	
MUS 2124	Music Traditions in Appalachia	Minor	TA 2014	Introduction to Theatre		UH 2534	Desn/Arts & Global Citizenship	
MUS 2134	Disability Culture & the Arts	2x	TA 2024	Introduction to Acting	Minor	UH 2824	Arts Tech Innov Soc Impact	

## 7 - Critical Analysis of Identity and Equity in the United States

Credit hours: 3 credits (double-counted with another concept)

AAEC 3324	Environ Sustain Dev Econ	Prereq Minor 2x	ENGL 2634	Writing and Social Justice	Prereq Minor 2x	MUS 1124	Living a Musical Life	2x
AAEC 4464	Water Resources Policy & Econ	Prereq Minor 2x	ENGL 2644	Intro African-American Lit	Prereq 2x	MUS 2134	Disability Culture & the Arts	2x
AFST 1714	Intro African American Studies	Minor 2x	ENGR 2984G	Special Study		PHIL 2314	Phil of Sex, Gender, Race	2x
AFST 2044	Contmpry African Amer Theatre	2x	FREC 4464	Water Resources Policy & Econ	Prereq Minor 2x	PM 4744	Housing Challenges & Policies	Minor 2x
AFST 2204	Race & Gender in Rel & Cult	Minor 2x	HD 1134	Intro to Disabilities Studies	Minor 2x	PSCI 1004	Nations and Nationalities	2x
AFST 2275	African-American History	2x	HD 2014	Integrative Health Practices	Minor 2x	PSCI 1014	US Gov & Politics	Minor 2x
AFST 2276	African American History	2x	HD 3954G	Study Abroad		PSCI 2484	Religion and Politics	2x
AFST 2644	Intro African-American Lit	Prereq 2x	HIST 1115	History of the United States	2x	PSYC 3024	Hum Behaviors Nat Environ	Prereq Minor 2x
AINS 2414	Identity & Inclusion in Agric	Prereq 2x	HIST 1116	History of the United States	2x	RED 4604	Environ & Sustain Housing	Minor 2x
AINS 3174	Native American History	2x	HIST 1764	History of Rock 'n' Roll	2x	RED 4604H	Environ & Sustain Housing	Minor 2x
ALCE 2414	Identity & Inclusion in Agric	Prereq 2x	HIST 2104	Topics in US History	2x	RLCL 2124	Religion in American Life	2x
APS 1704	Intro to Appalachian Studies	Minor 2x	HIST 2134	Topics in History on TV	2x	RLCL 2204	Race & Gender in Rel & Cult	Minor 2x
APS 2404	Folk Cultures in Appalachia	Minor 2x	HIST 2264	America in the 1960s	2x	RLCL 2484	Religion and Politics	2x
APS 2434	Cult Politics Music Appalachia	Minor 2x	HIST 2275	African-American History	2x	RLCL 2514	Asian American Experience	2x
ARCH 1044	Life in the Built Environment	2x	HIST 2276	African-American History	2x	RLCL 3034	Theories of Popular Culture	2x
ART 3684	African-American Art	2x	HIST 2494	Cities in History	2x	RLCL 3034H	Theories of Popular Culture	2x
ART 3884	American Art to 1914	2x	HIST 2504	Crime & Punishment Amer Hist	2x	SOC 1004	Introductory Sociology	Minor 2x
CINE 4144	Topics in Cinema Studies		HIST 2514	U.S. Food History	2x	SOC 2004	Social Problems	Minor 2x
COMM 2094	Comm & Issues of Diversity	Prereq 2x	HIST 2534	America at War	2x	SOC 2014	Soc Intimate Relationships	2x
COMM 2754H	Topics in Tech Innovation	Prereq 2x	HIST 3124	Murder in American History	2x	SOC 2024	Soc of Race and Ethnicity	2x
CRIM 2504	Crime & Punishment Amer Hist	2x	HIST 3164	Sexuality in Amer History	2x	SOC 2034	Diversity Comm Engagement	Minor 2x
CRIM 3124	Murder in American History	2x	HIST 3174	Native American History	2x	SOC 2514	Asian American Experience	2x
DANC 2004	Anatomy for Performers	2x	HIST 3724	Disease, Med, & Health	Minor 2x	SOC 3314	Social Movements	Prereq Minor 2x
DANC 2014	Introduction to Dance History	2x	HTM 4434	Event & Exp Wkshp	Prereq Minor 2x	SOC 3404	Environmental Justice	2x
ECON 1104	Economics of Gender	Minor 2x	HUM 1704	Intro to Appalachian Studies	Minor 2x	SPAN 3514	Span Medical Professions	Prereq 2x
ECON 1204	Economics of Race	Minor 2x	HUM 2404	Folk Cultures in Appalachia	Minor 2x	SPAN 3534	Spanish Business Professions	Prereq 2x
ECON 1214	Econ Hist: Diversity&Inclusion	Minor 2x	HUM 3034	Theories of Popular Culture	2x	SPAN 3564	Community Through Service	Prereq 2x
ECON 3034	Poverty and Discrimination	Prereq Minor 2x	HUM 3034H	Theories of Popular Culture	2x	SPIA 1044	Life in the Built Environment	2x
EDCI 2674	Language, Culture, & Learning	2x	IS 1004	Nations and Nationalities	2x	SPIA 2554	Collaborative Policy & Plan	Minor 2x
EDCI 3024	Issues of Schooling in the US	2x	IS 2484	Religion and Politics	2x	STS 2034	Intro to Technology and Race	2x
EDCI 3954G	Study Abroad		MGT 2204	Global Business of Pop Culture	Minor 2x	TA 2044	Contmpry African Amer Theatre	2x
EDCO 2004	Healthy Relationships	Minor 2x	MGT 3444	Multi Diversity in Orgs	Prereq Minor 2x	TA 2984G	Special Study	
ENGL 1514	Language and Society	Minor 2x	MGT 4334	Ethical Leadership	Prereq Minor 2x	WATR 4464	Water Resources Policy & Econ	Prereq Minor 2x
ENGL 2044	Contmpry African Amer Theatre	2x	MGT 2984G	Special Study		WGS 2204	Race & Gender in Rel & Cult	Minor 2x