

SCIENTIFIC INQUIRY AND RESEARCH SKILLS

Syracuse University Shared Competencies (<https://coursecatalog.syracuse.edu/shared-competencies/>)

The Scientific Inquiry and Research Skills competency is one of Syracuse University's six institutional learning goals that enhance undergraduate education through an integrated learning approach. Undergraduate students develop competencies through their major degree courses, liberal arts requirements, and co-curricular experiences.

Students can expect to learn the knowledge and skills outlined in the following description and learning outcomes in each specified rubric (<https://effectiveness.syr.edu/shared-competencies/shared-competencies-rubrics/>): Application of scientific inquiry and problem solving in various contexts. Analysis of theories, replication of procedures, and rethinking existing frameworks. Supporting arguments through research, data, and quantitative and qualitative evidence that can generate new knowledge.

Code	Title	Credits
AAS 333	African American History: After the 19th Century	3
AAS 425	"Revolt of the Black Athlete": Africana Studies and the History and Culture of Sport	3
AAS 625	"Revolt of the Black Athlete": Africana Studies and the History and Culture of Sport	3
ACC 151	Introduction to Financial Accounting	4
ACC 252	Intro to Managerial Acc	3
ACC 356	Intermediate Financial Accounting I	3
ACC 357	Intermediate Financial Accounting II	3
ACC 363	Cost Analysis & Control	3
ACC 477	Advanced Financial Accounting	3
ACC 485	Financial Statement Analysis	3
ACC 601	Intermediate Financial Accounting I	3
ACC 602	Intermediate Financial Accounting II	3
ACC 621	Cost Analysis & Control	3
ACC 725	Financial Statement Analysis	3
ACC 756	Advanced Financial Accounting	3
ADV 408	The Power and Promise of Data	3
ADV 509	Advertising Research and Planning: A Case Study Approach	3
ADV 608	The Power and Promise of Data	3
AEE 343	Compressible Flow	3
AEE 446	Air-breathing and Rocket Propulsion	3
AEE 472	Design of Aerospace Systems II	3
AEE 577	Introduction to Space Flight	3
ANT 131	Introduction to Biological Anthropology	3
ANT 141	Introduction to Archaeology and Prehistory	3
ANT 249	Archaeology at the Movies: The Scientific Study of the Past in Popular Culture	3
ANT 348	Mummies, Tombs, and Treasure	3
ANT 357	Health, Healing, and Culture	3
ANT 374	Topics in Sociolinguistics	3
ANT 375	Forensic Linguistics	3

ANT 378	Language Variation and Change	3
ANT 409	A History of Witchcraft	3
ANT 442	Methods in Archaeology	3
ANT 444	Laboratory Analysis in Archaeology	3
ANT 463	Global Health	3
ANT 481	Ethnographic Techniques	3
ANT 642	Methods in Archaeology	3
ANT 644	Laboratory Analysis in Archaeology	3
ANT 663	Global Health	3
ANT 674	Topics in Sociolinguistics	3
ANT 675	Forensic Linguistics	3
ANT 678	Language Variation and Change	3
ANT 681	Ethnographic Techniques	3
APH 365	Photo and Media Skills and Techniques	3
APH 565	Art Photography: Performance Art	3
ARB 326	Structure of Standard Arabic	3
ARC 121	Introduction to Building and Structural Systems	3
ARC 211	Structures I	3
ARC 222	Building Systems Design I	3
ARC 242	Architectural Theory II	3
ARC 307	Architectural Design V	6
ARC 311	Structures II	3
ARC 322	Building Systems Design II	3
ARC 409	Integrated Architectural Design	6
ARC 423	Advanced Building Systems	3
ARC 437	Renaissance Architecture in Italy: 1400-1600	3
ARC 568	Real Estate Design and Development	3
ARC 576	Theories & Analysis of Exurbia	3
ARC 623	Advanced Building Systems	3
ARI 201	Second-Year Studio I	3
ARI 202	Second Year Studio II	3
ARI 302	Third Year Studio II	3
BAN 454	Music Business, Technology & Emerging Opportunities	3
BAN 654	Music Business, Technology & Emerging Opportunities	3
BCM 475	Biochemistry I	3
BDJ 351	Sports Interviewing	1
BDJ 352	Sports Column Writing and Commentary	1
BDJ 651	Sports Interviewing	1
BDJ 652	Sports Column Writing and Commentary	1
BEN 201	Biological Principles for Engineers	4
BEN 212	Experimental Methods in Chemical Engineering and Bioengineering	3
BEN 364	Quantitative Physiology	3
BEN 385	Bioengineering Laboratory I	3
BEN 412	BioMEMS, Biosensors & Biophotonics	3
BEN 422	Immunoengineering	3
BEN 450	Environmental Risk Assessment & Toxicology	3
BEN 458	Biomedical Imaging	3
BEN 473	Biomanufacturing	3
BEN 485	Bioengineering Laboratory II	3
BEN 522	Biomedical-Device Infections	3

BEN 565	Biomechanics	3	CEE 657	Biogeochemistry	3
BEN 612	BioMEMS, Biosensors & Biophotonics	3	CEE 663	Introduction to Sustainable Engineering	3
BEN 622	Immunoengineering	3	CEE 671	Environmental Chemistry and Analysis	3
BEN 650	Environmental Risk Assessment & Toxicology	3	CEE 672	Applied Env Microbiology	3
BEN 658	Biomedical Imaging	3	CEE 678	Rehabilitation of Civil Infrastructure	3
BEN 664	Quantitative Physiology	3	CEN 212	Experimental Methods in Chemical Engineering and Bioengineering	3
BEN 673	Biomanufacturing	3	CEN 412	Chemical Engineering Laboratory II	2
BIO 211	Introduction to Neuroscience	3	CEN 450	Environmental Risk Assessment & Toxicology	3
BIO 323	Integrative Physiology and Ecology	4	CEN 451	Molecular and Statistical Thermodynamics	3
BIO 326	Genetics	3	CEN 461	Environmental Chemistry and Analysis	3
BIO 345	Ecology and Evolution	3	CEN 472	Applied Env Microbiology	3
BIO 396	Stem Cells and Society	3	CEN 473	Biomanufacturing	3
BIO 419	Junior and Senior Thesis Seminar	1	CEN 522	Biomedical-Device Infections	3
BIO 432	Droplets and Gels in Healthy and Diseased Cells	3	CEN 562	Air Resources	3
BIO 457	Principles of Human Toxicology	3	CEN 650	Environmental Risk Assessment & Toxicology	3
BIO 458	Seminar in Animal Communication	3	CEN 651	Molecular and Statistical Thermodynamics	3
BIO 462	Molecular Genetics	3	CEN 661	Environmental Chemistry and Analysis	3
BIO 471	Cell and Developmental Biology Laboratory	3	CEN 672	Applied Env Microbiology	3
BIO 632	Droplets and Gels in Healthy and Diseased Cells	3	CEN 673	Biomanufacturing	3
BIO 657	Principles of Human Toxicology	3	CHE 106	General Chemistry Lecture I	3
BIO 658	Seminar in Animal Communication	3	CHE 107	General Chemistry Laboratory I	1
BIO 662	Molecular Genetics	3	CHE 113	Forensic Science	4
BIO 671	Cell and Developmental Biology Laboratory	3	CHE 116	General Chemistry Lecture II	3
BUA 451	Advanced Business Analytics	3	CHE 117	General Chemistry Laboratory II	1
CCE 301	Civic Engagement: Theories and Social Impacts	3	CHE 275	Organic Chemistry I	3
CCE 302	Civic Engagement Research Seminar	3	CHE 276	Organic Chemistry I Laboratory	2
CCE 401	Civic Engagement Capstone	3	CHE 422	Inorganic Laboratory Technique	1
CEE 274	Sustainability in Civil and Environmental Systems	3	CHE 444	Forensic Chemical Analysis	4
CEE 325	Mechanics of Materials	3	CHE 474	Structural and Physical Biochemistry	3
CEE 326	Engineering Materials	3	CHE 622	Inorganic Laboratory Technique	1
CEE 332	Design of Concrete Structures	3	CHE 674	Structural and Physical Biochemistry	3
CEE 338	Foundation Engineering	3	CIS 545	Introduction to Combinatorics	3
CEE 405	Construction Estimating and Scheduling	3	CRS 287	Foundations of Inquiry in Human Communication	3
CEE 413	Physical Hydrology	3	CRS 318	Fashion in Focus: Discourses and Meaning	3
CEE 450	Environmental Risk Assessment & Toxicology	3	CRS 432	Political Communication: Inside the DC Beltway	3
CEE 457	Biogeochemistry	3	CRS 444	Senior Capstone Seminar	3
CEE 463	Introduction to Sustainable Engineering	3	CRS 632	Political Communication: Inside the DC Beltway	3
CEE 471	Environmental Chemistry and Analysis	3	CSD 315	Anatomy and Physiology of the Speech and Hearing Mechanisms	3
CEE 472	Applied Env Microbiology	3	CSD 325	Fundamentals of Hearing Sciences	3
CEE 475	Civil and Environmental Engineering Design	4	CSD 427	Speech and Language Disorders in Children	3
CEE 478	Rehabilitation of Civil Infrastructure	3	CSD 429	Basic Clinical Audiology	3
CEE 535	Structl Steel Design	3	CSD 615	Anatomy and Physiology of the Speech and Hearing Mechanisms	3
CEE 538	Dynamics of Structures	3	CSD 627	Speech and Language Disorders in Children	3
CEE 562	Air Resources	3	CSD 629	Basic Clinical Audiology	3
CEE 571	Water Quality Modeling	3	DES 113	History of Modern Design: 1850-Present	3
CEE 577	Urban Stormwater Management	3	DES 114	Design, Cultural Traditions and the Environment	3
CEE 581	Lean Construction Principles and Methods	3	DES 303	Soft Goods Design and Production	3
CEE 582	Construction Productivity	3	DES 322	Made In Italy: Business, Craftsmanship and Branding Success	3
CEE 584	Designing W/Geosynthetics	3	DES 335	App Design and Prototyping	3
CEE 605	Construction Estimating and Scheduling	3			
CEE 613	Physical Hydrology	3			
CEE 650	Environmental Risk Assessment & Toxicology	3			

DES 635	App Design and Prototyping	3	ELE 291	Electrical Engineering Laboratory I	1
EAR 105	Earth Science	3	ELE 292	Linear Systems Laboratory	1
EAR 111	Climate Change Past and Present	3	ELE 354	Communication Systems	3
EAR 117	Oceanography	3	ELE 414	Power System Analysis and Control	3
EAR 201	Introduction to Earth and Environmental Data Analysis	2	ELE 492	Senior Design Project II	3
EAR 203	Earth System Science	4	ELE 614	Power System Analysis and Control	3
EAR 205	Water and Our Environment	3	EXE 195	Introduction to Exercise Science	3
EAR 210	History of Earth and Life	4	EXE 285	Measurement and Evaluation in Exercise Science	3
EAR 225	Volcanoes and Earthquakes	3	EXE 339	Physiology of Exercise	3
EAR 311	Environmental Geophysics	4	EXE 408	Analysis of Human Motion	3
EAR 314	Mineralogy	4	EXE 427	Exercise Testing and Interpretation	3
EAR 325	Introduction to Paleontology	4	EXE 436	Scientific Principles of Conditioning	3
EAR 333	Structural Geology	4	EXE 519	Metabolic Aspects of Physical Activity	3
EAR 401	Hydrogeology	3	EXE 627	Exercise Testing and Interpretation	3
EAR 402	Numerical Methods in Geosciences	3	EXE 636	Scientific Principles of Conditioning	3
EAR 403	Geomorphology	3	FAS 231	Fashion Design Studio I	3
EAR 405	Global Change:Geologic Record	3	FAS 232	Fashion Design Studio II	3
EAR 413	Physical Hydrology	3	FAS 428	Social and Psychological Factors Influencing Clothing	3
EAR 414	The Holocene: Climate and Environmental Change	3	FIL 253	Survey of Film History 1	3
EAR 415	Introduction to Climate Dynamics	3	FIL 419	Film Senior Project: Development	3
EAR 417	Geochemistry	3	FIL 520	Film Studies Seminar	3
EAR 419	Environmental Aqueous Geochemistry	3	FIN 256	Principles of Finance	3
EAR 431	Plate Tectonics	3	FIN 301	Essentials of Finance	3
EAR 601	Hydrogeology	3	FIN 345	Financial Management	3
EAR 602	Numerical Methods in Geosciences	3	FIN 346	Investments	3
EAR 603	Geomorphology	3	FIN 452	Working Capital Management	3
EAR 605	Global Change:Geologic Record	3	FIN 459	Introduction to Derivatives	3
EAR 613	Physical Hydrology	3	FIN 460	Fixed Income Securities	3
EAR 614	The Holocene: Climate and Environmental Change	3	FIN 466	Value Investing	3
EAR 615	Introduction to Climate Dynamics	3	FIN 473	Control Investing	3
EAR 617	Geochemistry	3	FIN 652	Working Capital Management	3
EAR 619	Environmental Aqueous Geochemistry	3	FIN 659	Introduction to Derivatives	3
EAR 631	Plate Tectonics	3	FIN 666	Value Investing	3
ECN 301	Intermediate Microeconomics	3	FIN 673	Control Investing	3
ECN 362	Globalization Development and Environment	3	FMA 351	Film and Media Arts Advanced Studio	3
ECN 422	Introduction to Statistics and Econometrics	3	FSC 306	Advanced Forensic Science	3
ECN 465	International Trade Theory and Policy	3	FSC 434	Anatomy & Physiology for Forensic Medicine	3
ECN 487	Economic Growth	3	FSC 435	Medicolegal Death Investigation I	3
ECN 505	Mathematical Economics	3	FSC 441	Forensic Analysis of Biological Evidence with lab	3
ECN 521	Economic Statistics	3	FSC 444	Forensic Chemical Analysis	4
ECN 522	Econometric Methods	3	FSC 451	Forensic Pathology	3
ECS 391	Legal Aspects of Engineering and Computer Science	3	FSC 452	Forensic Mental Health	3
EDI 255	Environmental Factors I	3	FSC 453	Forensic Toxicology	3
EDI 256	Environmental Factors II	3	FSC 457	Principles of Human Toxicology	3
EDI 353	Environmental Factors III	3	FSC 461	Firearms and Impression Evidence	3
EDI 452	Environmental Design Capstone Project	6	FSC 463	Bloodstain Pattern Analysis with lab	3
EDU 481	Education, Research and Theory	3	FSC 464	Latent Print Processing with lab	3
EEE 443	Emerging Enterprise Consulting	3	FSC 465	Latent Prints with practicum	3
ELE 231	Electrical Engineering Fundamentals	3	FSC 468	Crime Scene Investigation with lab	3
ELE 251	Fundamentals of Linear Systems	3	FSC 474	Forensic DNA Analysis with practicum	3
			FSC 478	Crime Scene Investigation II with lab	3

FSC 479	Microbial Forensic Science	3	HOA 498	Senior Seminar: Research and Professional Practice	3
FSC 498	Capstone Seminar in Forensic Science	3	HOA 512	Islamic Palaces of Spain: from Past to Present	3
FSC 634	Anatomy & Physiology for Forensic Medicine	3	HOA 521	Michelangelo	3
FSC 635	Medicolegal Death Investigation I	3	HOA 524	The Italian Renaissance Home	3
FSC 641	Forensic Analysis of Biological Evidence with lab	3	HOM 396	Junior Seminar: Writing about Music	3
FSC 651	Forensic Pathology	3	HOM 415	History of Recorded Sound	3
FSC 652	Forensic Mental Health	3	HOM 419	Music and Media	3
FSC 653	Forensic Toxicology	3	HOM 471	Popular Music Studies	3
FSC 657	Principles of Human Toxicology	3	HOM 482	Global Popular Music	3
FSC 661	Firearms and Impression Evidence	3	HOM 491	Music, Space and Place	3
FSC 663	Bloodstain Pattern Analysis with lab	3	HOM 496	Distinction Project in Music History and Cultures	3
FSC 664	Latent Print Processing with lab	3	HOM 497	Music and Politics	3
FSC 665	Latent Prints with practicum	3	HOM 615	History of Recorded Sound	3
FSC 674	Forensic DNA Analysis with practicum	3	HOM 671	Popular Music Studies	3
FSC 678	Crime Scene Investigation II with lab	3	HOM 691	Music, Space and Place	3
FSC 679	Microbial Forensic Science	3	HST 301	Practicum in the Study of History	3
FST 202	Agroecology	3	HST 333	African American History: After the 19th Century	3
FST 302	Food, Environment and Climate	3	HST 343	Food in Pre-Modern Europe	3
FST 310	Will Work for Food: Labor Across the Food Chain	3	HST 409	A History of Witchcraft	3
FST 403	The Human Right to Adequate Food and Nutrition	3	HST 412	Modern Spain: History and Politics	3
GEO 155	The Natural Environment	3	HST 424	Dictatorships, Human Rights, and Historical Memory in the Southern Cone	3
GEO 313	The United States	3	HST 453	Twentieth Century Europe	3
GEO 316	River Environments	3	IND 104	Fundamentals of Industrial & Interaction Design	3
GEO 323	Quantitative Methods in Human Geography	3	IND 275	Qualitative Observation and Analysis	3
GEO 383	Geographic Information Systems	3-4	IND 375	Human Factors For Designers	3
GEO 422	Water: Environment, Society and Politics	3	IND 392	Regenerative and Sustainable Materials for Design	3
GEO 426	Environmental Change in the Anthropocene	3	IND 396	Advanced Research Methods	3
GEO 435	The Global Middle East	3	IND 475	Advanced Design Studio	3
GEO 482	Environmental Remote Sensing	3-4	IND 478	Symbology and Semiotics in Industrial Design	3
GEO 622	Water: Environment, Society and Politics	3	IND 481	Ethnography and Culture in Design	3
GEO 623	Quantitative Methods in Human Geography	3	IND 494	Biomimicry: Learning from Nature	3
GEO 626	Environmental Change in the Anthropocene	3	IND 673	Human Factors For Designers	3
GEO 682	Environmental Remote Sensing	3-4	IRP 201	International Relations Research Methods	3
GEO 683	Geographic Information Systems	3-4	IRP 410	International Relations Capstone Seminar	3
HFS 201	Family Development	3	IRP 412	Global Governance: The United Nations System	3
HFS 204	Applied Research Methods in Child and Family Studies	3	IRP 424	Dictatorships, Human Rights, and Historical Memory in the Southern Cone	3
HFS 327	Human Development and Sport	3	IRP 495	Distinction in International Relations Seminar	3
HFS 422	Work and Family in the 21st Century	3	IST 336	Leading Issues in Information Security	3
HFS 447	Principles and Practices in Parenting	3	IST 345	Managing Information Systems Projects	3
HFS 452	Mindfulness in Children and Youth	3	IST 387	Introduction to Applied Data Science	3
HFS 479	Power, Conflict, Violence, and the Family	3	IST 414	Data-Driven Inquiry	3
HFS 494	HDFS Capstone Internship	3	IST 419	Economics of Digital Transformation	3
HFS 652	Mindfulness in Children and Youth	3	IST 425	Enterprise Risk Management	3
HNR 230	Seminar: Scientific Issues and Practice	1	IST 466	Professional Issues in Information Studies	3
HNR 250	Topics in the Natural Sciences and Mathematics Honors	3	IST 476	Applied Information Security	3
HNR 350	Topics in the Natural Sciences and Mathematics Honors	3	IST 477	Capstone in Innovation, Society & Technology (IST)	3
HOA 203	Italian Arts from Antiquity to Michelangelo	3	IST 645	Managing Information Systems Projects	3
HOA 321	Leonardo da Vinci	3	JNL 221	Foundations of Data and Digital Journalism	3
HOA 424	Sixteenth-Century Italian Art and Identity	3	KNM 301	Introduction to Knowledge Management	3
HOA 437	Renaissance Architecture in Italy:1400-1600	3	KNM 310	Knowledge Capture and Codification	3

KNM 401	Professional Issues in Knowledge Management	3	MAT 412	Introduction to Real Analysis I	3
KNM 402	Strategy and Planning	3	MAT 414	Introduction to Ordinary Differential Equations	3
LAS 424	Dictatorships, Human Rights, and Historical Memory in the Southern Cone	3	MAT 485	Differential Equations and Matrix Algebra for Engineers	3
LIN 301	Introductory Linguistic Analysis	3	MAT 495	Fundamentals of Data Science	3
LIN 305	Linguistic Structure of English	3	MAT 511	Advanced Calculus	3
LIN 326	Structure of Standard Arabic	3	MAT 512	Introduction to Real Analysis II	3
LIN 373	Language Variation and Change	3	MAT 513	Introduction to Complex Analysis	3
LIN 374	Topics in Sociolinguistics	3	MAT 517	Partial Differential Equations and Fourier Series	3
LIN 375	Forensic Linguistics	3	MAT 518	Fourier Series, Transforms and Wavelets	3
LIN 392	Second Language Acquisition	3	MAT 521	Introduction to Probability	3
LIN 406	Field Methods in Linguistics	3	MAT 524	Regression Analysis	3
LIN 411	Semantics of Human Languages	3	MAT 525	Mathematical Statistics	3
LIN 431	Phonological Analysis	3	MAT 526	Introduction to Stochastic Processes	3
LIN 441	Syntactic Analysis	3	MAT 527	Analysis of Variance and Experimental Design	3
LIN 451	Morphological Analysis	3	MAT 531	Second Course in Linear Algebra	3
LIN 461	Introduction to Historical Linguistics	3	MAT 532	Applied Linear Algebra	3
LIN 601	Introductory Linguistic Analysis	3	MAT 534	Introduction to Abstract Algebra	3
LIN 605	Linguistic Structure of English	3	MAT 541	Introduction to Number Theory	3
LIN 606	Field Methods in Linguistics	3	MAT 545	Introduction to Combinatorics	3
LIN 611	Semantics of Human Languages	3	MAT 551	Fundamental Concepts of Geometry	3
LIN 626	Structure of Standard Arabic	3	MAT 554	Differential Geometry	3
LIN 631	Phonological Analysis	3	MAT 581	Numerical Methods with Programming	3
LIN 641	Syntactic Analysis	3	MAT 695	Fundamentals of Data Science	3
LIN 651	Morphological Analysis	3	MAX 201	Quantitative Methods for the Social Sciences	3
LIN 661	Introduction to Historical Linguistics	3	MBU 654	Music Business, Technology & Emerging Opportunities	3
LIN 673	Language Variation and Change	3	MEE 416	Mechanical Engineering Laboratory	3
LIN 674	Topics in Sociolinguistics	3	MMI 306	Strategic Content Management	3
LIN 675	Forensic Linguistics	3	MMI 606	Strategic Content Management	3
LIN 692	Second Language Acquisition	3	MND 413	Emerging Media Platforms	3
MAE 284	Introduction to CAD	3	MND 613	Emerging Media Platforms	3
MAE 315	Mechanical and Aerospace Engineering Laboratory	3	MND 651	Sports Interviewing	1
MAE 321	Dynamics of Mechanical Systems	3	MND 652	Sports Column Writing and Commentary	1
MAR 357	Consumer Behavior	3	MUI 309	Studio Acoustics	3
MAR 453	Marketing Analytics	3	MUI 322	Concert Recording II	2
MAR 653	Marketing Analytics	3	MUI 609	Studio Acoustics	3
MAS 261	Introductory Statistics for Management	3	MUI 622	Concert Recording II	2
MAT 117	Foundational Mathematics via Problem Solving I	3	NEU 211	Introduction to Neuroscience	3
MAT 118	Foundational Mathematics via Problem Solving II	3	NEU 223	Introduction to Cognitive Neuroscience	3
MAT 121	Probability and Statistics for the Liberal Arts I	4	NSD 225	Nutrition in Health	3
MAT 122	Probability and Statistics for the Liberal Arts II	4	NSD 425	Nutrition for Fitness and Sports	3
MAT 183	Elements of Modern Mathematics	4	NSD 456	Nutritional Biochemistry	4
MAT 221	Elementary Probability and Statistics I	4	NSD 457	Research and Evaluation in Nutrition	3
MAT 222	Elementary Probability and Statistics II	3	NSD 466	Nutritional Biochemistry II	3
MAT 284	Business Calculus	4	NSD 625	Nutrition for Fitness and Sports	3
MAT 285	Life Sciences Calculus I	3	PAI 415	Poverty Policy	3
MAT 286	Life Sciences Calculus II	3	PAI 624	Dictatorships, Human Rights, and Historical Memory in the Southern Cone	3
MAT 295	Calculus I	4	PHI 396	Stem Cells and Society	3
MAT 296	Calculus II	2-4	PHP 301	Holistic Healing Practices	3
MAT 331	First Course in Linear Algebra	3	PHP 302	Influencing Healthy Behavior	3
MAT 375	Introduction to Abstract Mathematics	3			
MAT 397	Calculus III	4			

PHP 306	Understanding Health Systems: Macro & Micro Perspectives	3	PSY 471	Experimental Social Psychology: Research Methods and Scientific Inference	3
PHP 309	Health Disparities and Underserved Populations	3	PSY 472	Laboratory in Social Psychology: Advanced Research Methods and Practice	3
PHP 313	Issues and Challenges: U.S. Healthcare Delivery	3	PSY 619	Second Language Acquisition	3
PHP 321	Prevention in Addiction Services	4	PSY 620	Using Robots to Understand the Mind	3
PHP 401	Epidemiology	3	REL 385	Religion in Chinese Society	3
PHP 402	Implementing and Evaluating Health Programs	3	REL 409	A History of Witchcraft	3
PHP 405	Science and Practice of Mindfulness	3	RES 332	Real Estate Principles	3
PHP 409	The Impact of Addictions on Families and Relationships	3	RES 342	Real Estate Development	3
PHP 422	Senior Capstone Internship	1-9	RES 362	Real Estate Finance and Investment	3
PHP 463	Global Health	3	RES 443	Real Estate Capital Markets	3
PHP 605	Science and Practice of Mindfulness	3	RES 631	Real Estate Principles	3
PHP 663	Global Health	3	RES 642	Real Estate Development	3
PHY 215	General Physics I for Scientists	3	RES 643	Real Estate Capital Markets	3
PHY 216	General Physics II for Scientists	3	RES 662	Real Estate Finance and Investment	3
PHY 302	Mathematical Skills for Physicists	3	SAL 213	Sport Data Analysis I	3
PHY 307	Science and Computers I	3	SAL 295	Research Methodology for Sport Analytics	3
PHY 360	Vibrations, Waves and Thermal Physics	3	SAL 313	Sport Data Analysis II	3
PHY 361	Statistical Physics and Quantum Phenomena	3	SAL 366	Sport Economics II	3
PHY 443	Experimental Physics	4	SAL 384	Advanced Python for Sport Analytics	3
PHY 523	Advanced Mechanics	3	SAL 495	Sport Analytics Thesis Seminar I	3
PHY 524	Electromagnetics I	3	SAL 496	Sport Analytics Thesis Seminar II	3
PHY 531	Thermodynamics and Statistical Mechanics	3	SCM 265	Introduction to Supply Chain Management	3
PHY 567	Introduction to Quantum Mechanics I	3	SCM 403	Introduction to Management Science	3
PPM 310	Project Organization and Leadership	3	SCM 451	Supply Chain Finance	3
PRL 315	Public Relations Research	3	SCM 455	Lean Six Sigma	3
PRL 320	Digital & Social Media Innovation for Public Relations	1.5	SCM 751	Supply Chain Finance	3
PRL 620	Digital & Social Media Innovation for Public Relations	1.5	SCM 755	Lean Six Sigma	3
PSC 202	Introduction to Political Analysis	3	SMC 355	Television Sports Play-by-Play	1
PSC 348	Politics and the Military	3	SMC 404	Esports Shoutcasting	3
PSC 356	Political Conflict	3	SMC 454	Sport Writing Across Platforms	3
PSC 412	Global Governance: The United Nations System	3	SMC 654	Sport Writing Across Platforms	3
PSC 422	Modern Spain: History and Politics	3	SMC 655	Television Sports Play-by-Play	1
PSC 424	Dictatorships, Human Rights, and Historical Memory in the Southern Cone	3	SOC 300	Selected Topics	1-6
PSC 453	Twentieth Century Europe	3	SOC 302	Gender, Race, Migration and Family in Spain	3
PSC 462	Globalization Development and Environment	3	SOC 318	Introduction to Research	3
PSC 478	Politics of China	3	SOC 319	Qualitative Methods in Sociology	3
PSC 495	Distinction Thesis Seminar in Political Science I	3	SOC 367	Sociology of Sport	3
PSC 496	Distinction Thesis Seminar in Political Science II	3	SOC 372	Topics in Sociolinguistics	3
PSY 213	Introduction to Research Methodology	3	SOC 422	Work and Family in the 21st Century	3
PSY 223	Introduction to Cognitive Neuroscience	3	SOC 513	Statistics for Social Science	3
PSY 252	Statistical Methods II	3	SOC 672	Topics in Sociolinguistics	3
PSY 319	Second Language Acquisition	3	SPA 424	Dictatorships, Human Rights, and Historical Memory in the Southern Cone	3
PSY 331	Laboratory in Sensation and Perception	3	SPA 435	Spanish Phonetics and Phonology	3
PSY 332	Experiments in Cognitive Psychology	3	SPA 437	Introduction to Spanish Linguistics	3
PSY 334	Laboratory in Developmental Biopsychology	3	SPA 635	Spanish Phonetics and Phonology	3
PSY 383	Laboratory in Health Psychology	3	SPA 637	Introduction to Spanish Linguistics	3
PSY 420	Using Robots to Understand the Mind	3	SPM 215	Principles of Sales in Sport	3
PSY 443	Laboratory in Child Psychology	3	SPM 327	Human Development and Sport	3
			SWK 361	Foundations of Social Work Research	3
			SWK 403	Social Work and the Human-Animal Bond	3

SWK 603	Social Work and the Human-Animal Bond	3
TRF 496	Research for Entertainment Media	3
TRF 595	Programming and Audience Analysis	3
TRF 696	Research for Entertainment Media	3
VIS 442	Professional Practices for Visual Communicators	3
VIS 642	Professional Practices for Visual Communicators	3
WGS 302	Gender, Race, Migration and Family in Spain	3
WGS 310	Feminist Inquiries	3
WGS 317	Qualitative Methods in Sociology	3
WGS 409	A History of Witchcraft	3
WGS 422	Work and Family in the 21st Century	3
WGS 479	Power, Conflict, Violence, and the Family	3
WRT 303	Advanced Writing Studio: Research and Writing	3