

CENTER FOR UNDERGRADUATE RESEARCH AND SCHOLARSHIP

The Center for Undergraduate Research and Scholarship (CURAS) supports and facilitates undergraduate research across all schools and colleges at Creighton University.

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Concentration in Undergraduate Research and Scholarship

The Concentration in Undergraduate Research and Scholarship is offered by the Center for Undergraduate Research and Scholarship (CURAS) in recognition of undergraduate students who have mastered a comprehensive range of skills essential to their success as Jesuit-educated researchers. Students obtain the concentration through a combination of coursework, research presentations, proposal writing or publication, and participation in events and assessments sponsored by the Center for Undergraduate Research and Scholarship. In the spirit of the Jesuit tradition, reflection and ethics are also crucial components of this program.

Learning Outcomes and Objectives:

1. Students will acquire research skills and knowledge specific to their field of interest
2. Students will effectively orally communicate their research/creative project findings to a broader audience
3. Students will effectively communicate their research/creative project findings and ideas in written form
4. Students will reflect on how their research fits into Creighton's mission and addresses Jesuit values

Concentration Requirements (10 Credits):

Summary: The Concentration has requirements in two primary forms: academic and research dissemination. The academic requirement includes successful completion of 3 credits of independent research and 6 credits of research-related coursework. The research dissemination portion requires 1 research proposal or publication, 1 presentation at a local, regional, or national conference, and either attendance or presentation of one's research at 3 Creighton research events. Research dissemination recognition is completed in a 1 credit capstone research course.

Code	Title	Credits
Independent Research		3
ACC 497	Directed Independent Research	
AMS 497	Directed Independent Research	
ANT 497	Directed Independent Research	
ARH 497	Directed Independent Research	
ART 495	Directed Independent Projects	
ART 497	Directed Independent Research	
BIO 397	Directed Independent Research (Extramural)	

BIO 497	Directed Independent Research
BUS 497	Directed Independent Research
CHM 297	Directed Research
CHM 496	Directed Independent Research I
CHM 497	Directed Independent Research II
COM 498	Directed Independent Research - Special
CRJ 497	Directed Independent Research
CSC 497	Directed Independent Research
ECO 497	Directed Independent Research
EDU 497	Directed Independent Research
ENT 497	Directed Independent Research
EVS 497	Directed Independent Research
EXS 497	Directed Independent Research
FIN 497	Directed Independent Research
FRN 497	Directed Independent Research
GDE 599	Senior Capstone
GER 497	Directed Independent Research
HAP 497	Directed Independent Research
HIS 497	Directed Independent Research
JRM 599	Senior Capstone: Entrepreneurial Media
MTH 495	Directed Independent Study
MTH 497	Directed Independent Research
MUS 495	Independent Research Project
NAS 497	Directed Independent Research
NES 397	Directed Independent Research (Extramural)
NES 497	Directed Independent Research (Intramural)
PHL 495	Directed Independent Study
PHY 497	Directed Independent Research
PLS 497	Directed Independent Research
PSY 497	Directed Independent Research
SOC 497	Directed Independent Research
SPN 497	Directed Independent Research in Spanish and Hispanic Studies
THR 495	Directed Independent Study
THL 495	Directed Independent Study
WGS 495	Directed Independent Study
SWK 497	Directed Independent Research

Research Courses: 6

Student may choose courses from any of the three course areas: Research Methods and Analysis, Research Communication or Ethics, or Course-Based Undergraduate Research Experiences (CUREs). There are no area distribution requirements for coursework.

Research Methods and Analysis

AMS 308	Theories and Methods in American Studies
AMS 316	Qualitative Methods, Ethnography, and Engagement
AMS 470	Making Maps that Matter: Introduction to Geographic Information Systems
ANT 318	Applied Research: Assessment and Evaluation
ANT 470	Making Maps that Matter: Introduction to Geographic Information Systems
ARH 401	History and Methods of Art History
ART 411	Advanced Ceramics I

ART 422	Life Drawing IV	GER 411	Introduction To German Literature
ART 432	Painting IV	HIS 310	History Workshop
ART 448	Printmaking IV	HIS 316	Introduction to Digital Humanities
BIA 261	Business Analytics	JRM 440	Media Research
BIO 311	Biostatistics	MKT 343	Marketing Research
BIO 318	Genetics Laboratory	MTH 471	Mathematical Analysis
BIO 363	Cell Structure and Function Laboratory	MTH 481	Modern Algebra I
BIO 372	Animal Behavior Laboratory	MUS 415	Conducting
BIO 419	Molecular Genetics Laboratory	NUR 200	Statistical Reasoning
BIO 463	Neurobiology Laboratory	NUR 346	Evidence-Based Practice I
BIO 481	Terrestrial Ecology	NUR 348	Care Management Concepts II
BIO 501	Bioinformatics	NUR 477	Evidence-Based Practice II
CHM 286	Chemical and Statistical Analysis Laboratory	PHL 321	Epistemology
CHM 315	Quantitative and Statistical Analysis	PHL 331	Moral Philosophy
COM 300	Communication Research Methods	PHL 332	World Philosophy
COM 359	Rhetoric and Public Culture	PHL 340	Philosophy of Language
CRJ 312	Research Design for the Social Sciences	PHL 342	Metaphysics
CRJ 314	Statistics for the Social Sciences	PHL 351	Introduction To Chinese Philosophy
CRJ 316	Qualitative Methods, Ethnography, and Engagement	PHL 358	Social And Political Philosophy
CRJ 318	Applied Research: Assessment and Evaluation	PHL 367	American Philosophy
CRJ 470	Making Maps that Matter: Introduction to Geographic Information Systems	PHL 370	History Of Ancient Western Philosophy
CSC 542	Database Design and Security	PHL 371	History of Hellenistic Philosophy
DSC 366	Machine Learning	PHL 372	History of Medieval Philosophy
ECO 418	Econometrics	PHL 373	History of Modern Philosophy
EDU 211	Exploring Child and Adolescent Development	PHL 374	History of 19th-Century Philosophy
EDU 299	Understanding Educational Assessment and Statistical Reasoning	PHY 397	Research Methods
ENG 330	Sources and Methods of Writing	PHY 471	Classical Mechanics
ENG 331	Sources and Methods of Reading	PLS 310	Political Science Research Methods 2
ENG 400	Novel Ecologies: History, Literature, and Environmental Crisis	PLS 313	Politics of the Middle East
ENG 424	Adventurous Men and Wild Women: Genre, Gender and Geography in Fin-de-Siecle Literature	PLS 331	Public and Non-Profit Administration
ENG 427	Health, Justice and Literature	PLS 463	Game Theory And Social Choice
ENG 437	Literature, Philosophy and Economics: In Search of Economic Justice	PLS 530	Advanced Statistics for Political Science
ENG 439	Literacy And Technology: How Technology Shapes Cultural Literacy	PSY 314	Research Methods and Statistics I - Laboratory
ENG 441	Trauma in Literature	PSY 315	Research Methods And Statistics II
ENG 446	The Body in Early English Literature	SOC 312	Research Design for the Social Sciences
ENG 483	The Rhetoric of Emotion	SOC 313	Power and Society: Political Sociology in Action
ENG 489	American Prisons: Punish or Reform	SOC 314	Statistics for the Social Sciences
EVS 470	Making Maps that Matter: Introduction to Geographic Information Systems	SOC 318	Gender in American Society
EXS 407	Basic Statistics and Research Design	SOC 470	Making Maps that Matter: Introduction to Geographic Information Systems
EXS 450	Nutrition Health&Sports Perfor	SPN 405	Spanish Phonetics
EXS 489	Laboratory Methods and Procedures	SPN 425	Introduction to Literary Analysis
EXS 534	Neuromechanics of Human Movement	THL 350	Archaeology of Israel and Jordan
EXS 535	Applied Immunology	THL 380	Method and Theory in Theology
FPA 358	Business of the Arts	THL 419	Bible, Spirituality, & American Public Life
FRN 530	Introduction to Literary Analysis	THL 501	The Pentateuch
		THL 503	The Prophetic Literature Of The Old Testament
		THL 504	The Wisdom Literature Of The Old Testament
		THL 505	History of Biblical Interpretation
		THL 523	Israelite Religions
		THL 531	Studies in Early Christianity
		THL 538	Seminar in Christian Anthropology

THL 553	Reformation Theology	PSY 491	Honors Seminar
THL 565	Catholic Social Teaching	SOC 499	Senior Capstone: Applying the Social Sciences
THL 567	Gender, Race and Morality	SPN 401	Advanced Spanish Composition
THL 573	Religion and Politics	SPN 502	Advanced Spanish Translation
THL 589	The Rwanda Genocide as a Challenge for the Church	THL 492	Senior Seminar
THL 594	Special Topics: Sources and Applications 1	THR 499	Senior Thesis
THL 596	Special Topics: Sources and Applications 2	Course-Based Undergraduate Research Experiences (CUREs)	
Research Communication or Ethics		ART 401	Arts and Civic Engagement: Empty Bowls
AMS 491	Senior Seminar	ART 402	Art and Activism
ANT 499	Senior Capstone: Applying the Social Sciences	BIO 439	Parasitology
ARH 499	Senior Thesis	BIO 453	Microbiology Laboratory
ART 499	Senior Thesis II	BIO 517	Current Topics in Genetics
BUS 356	Business Ethics	CHM 382	Biochemistry Laboratory
CHM 493	Directed Independent Readings	CSC 444	Human Computer Interaction
CHM 499	Chemistry Seminar	CSC 445	Social Networks Analytics
COM 497	Senior Research in Communication Studies	CSC 550	Introduction To Artificial Intelligence
CRJ 499	Senior Capstone: Applying the Social Sciences	CSC 590	Special Topics
CSC 599	Senior Capstone	CUR 111	Introduction to Undergraduate Research
ECO 508	History of Political Economy	ENG 228	The City in Literature
ECO 518	Comparative Economic Systems	ENG 455	Global Bollywood
EDU 584	Advanced Instructional Practices	EVS 483	History of Environmental Inequalities
EVS 354	Environmental Ethics	EVS 488	Global Environmental History
EVS 459	Environmental Communication	FRN 550	La litterature francophone africaine
EVS 491	Senior Seminar	FRN 551	Women Writers In French And Francophone Literature
EXS 391	Career Preparation and Professionalism	FRN 566	History of the Romance Languages
FRN 411	Advanced Spoken French	GDE 380	Graphic Design
FRN 412	Advanced Written French	GER 568	The Multiplicity of German Culture: Cultural Differences and Marginality
GDE 426	Data Visualization	HIS 374	The Politics of Heredity: Eugenics in America
GER 321	German For Business And Economics	HIS 431	Mathematical History, Philosophy And Ethics
HAP 404	Bioethics and Society	HIS 488	Global Environmental History
HAP 410	Seminar In Health Administration	HIS 490	Advanced Research Methods
HAP 485	Internship In Health Administration And Policy	JRM 438	Media Ethics and Law
HAP 493	Directed Independent Readings	MTH 447	Mathematics in Medicine and the Life Sciences I
HIS 402	Intersections: History of Disability	PHL 493	Directed Independent Research
HIS 595	Special Problems in History	PHL 597	Advanced Independent Research
JRM 319	Media Writing	PHY 353	Introduction to Biological Physics
JRM 320	Professional Writing	PSY 316	Research Methods And Statistics II Laboratory
JRM 435	History of American Mass Media	SPN 431	Medical Spanish II
MTH 400	Current Issues in Mathematics	SPN 554	Twentieth-Century Latin-American Poetry
MUS 498	Senior Recital	SPN 555	Twentieth-Century Latin American Theatre
NES 464	Neurobiology of Disease	SPN 566	History of the Romance Languages
NES 592	Neuroscience Senior Seminar	SPN 599	Senior Seminar
PHL 425	Sciences, Ethics & Society	THR 441	Play Direction And Script Analysis II
PHL 457	Biomedical Ethics: Philosophical and Theological Approaches	THR 467	Theatre for Social Justice
PHL 492	Senior Seminar	Research Dissemination:	
PHY 491	Physics Seminar	CUR 400	Capstone in Undergraduate Research
PHY 499	Research Capstone	Total Credits	
PLS 483	Public Affairs Internship	10	
PLS 591	Senior Research Seminar In Political Science	The purpose of the Capstone course is to create or finalize the portfolio of research dissemination activities that have been completed by the student since arriving at Creighton. Students must enroll in CUR 400	
PLS 592	Advanced Research Practicum		

during the semester they anticipate finalizing the following required research activities:

1. One research presentation, exhibit, or performance at an event that includes non-Creighton attendees (local, regional, national). A Creighton-hosted event satisfies this requirement if it is a local, regional, or national event with non-Creighton attendees invited.
2. Attendance at 3 on-campus research, exhibition, or performance events (presentation at 2 on-campus events can substitute for the 3 attendance events). Off-campus presentations can substitute for up to 2 on-campus presentations.
3. One research proposal (internal or external), or 1 submitted publication (internal via *Quest* (or equivalent internal publication outlets) or external outlets).
 - a. Proposals
 - i. Research proposals can be written as part of a course, an internal funding application (e.g. Summer Undergraduate Research and Creative Projects Fellowship), or external funding mechanisms.
 - ii. All proposals should include clear rationale, goals, and proposed methodology. Proposals should be at least 1000 words in length (approximately 4 pages double-spaced), unless otherwise stipulated by the funding agency.
 - iii. All proposals must have gone through a peer or expert-review process (internal or external) to satisfy this requirement.
 - iv. Proposals do not need to be funded to satisfy this requirement (i.e. rejected proposals are acceptable)
 - b. Publications
 - i. Work submitted to external outlets does not have to be published to satisfy the requirement (i.e. works under review or rejected still count).
 - ii. Published abstracts alone do not satisfy this requirement