

CAS Curriculum Maps

	Department	Program	Submitted
1	Biology	Biology	x
2	Chemistry	Biochemistry	x
3	Chemistry	Chemistry	x
4	Chemistry	Chemistry - Business	x
5	Chemistry	Chemistry - Computers	x
6	Chemistry	Forensic Chemistry	x
7	Chemistry	Medical Technology	x
8	Communication	Communication	x
9	Computing Sciences	Computer Information Systems	x
10	Computing Sciences	Computer Science	x
11	English	English	x
12	English	Theatre	x
13	History	History	x
14	History	International Studies	x
15	Inter-disciplinary Programs	Biochemistry, Cell & Molecular Biology (BCMB)	x
16	Inter-disciplinary Programs	Environmental Science	x
17	Inter-disciplinary Programs	Media Information Technology (MIT)	x
18	Inter-disciplinary Programs	Neuroscience	x
19	Latin American Studies and Women Studies	Latin American Studies	x
20	Latin American Studies and Women Studies	Women Studies	x
21	Mathematics	Biomathematics	x
22	Mathematics	Mathematics	x
23	Philosophy	Philosophy	x
24	Physics/Electrical Engineering	Biophysics	x
25	Physics/Electrical Engineering	Computer Engineering	x
26	Physics/Electrical Engineering	Electrical Engineering	x
27	Physics/Electrical Engineering	Engineering Management	x
28	Physics/Electrical Engineering	Physics	x
29	Political Science	Political Science	x
30	Psychology	Psychology	x
31	Sociology, Criminal Justice and Criminology	Criminal Justice	x
32	Sociology, Criminal Justice and Criminology	Sociology	x
33	Theology/Religious Studies	Theology/Religious Studies	x
34	World Languages and Cultures	Classical Languages	x
35	World Languages and Cultures	International Languages - Business	x
36	World Languages and Cultures	Modern Languages	x

CAS Curriculum Program Learning Outcomes Matrix

Program: Biology
Date Completed:

Program Learning Outcomes (PLO)	BIOL 195	BIOL 141	BIOL 141L	BIOL 142	BIOL 142L	BIOL 241	BIOL 241L
	Tropical Biology	General Biology I	General Biology I Lab	General Biology II	General Biology II Lab	Comparative Vertebrate Anatomy	Comparative Anatomy Lab
PLO #1: Demonstrate mastery of content across the broad field of modern biology	A, E field notes	A, B	A, B, C	A	A, B, C	A	A
			B, C, E homework exercises	A, E homework exercises	B, C, E homework exercises		
PLO #2: Critically evaluate biological data							
			A, B, C, E homework exercises	A	A, B, C, E homework exercises		
PLO #3: Demonstrate mastery of the scientific method							
PLO #4: Effectively communicate biological information in writing		B	B, C	B	B, C		
PLO #5: Effectively communicate biological information orally		C	C	C	C		

Method Key:

CAS Curriculum Program Learning Outcomes Matrix

[illegible]

CAS Curriculum Program Learning Outcomes Matrix

BIOL 195	BIOL 245	BIOL 245L	BIOL 250	BIOL 250L	BIOL 255	BIOL 260	BIOL 272	BIOL 272L	BIOL 273	BIOL 274	BIOL 295	BIOL 342
Tropical Biology	General Physiology	General Physiology Lab	Microbiology	Microbiology Lab	Animal Nutrition and Metabolism	Genetics	Invertebrate Biology	Invertebrate Biology Lab	Marine Ecology	Conservation Biology	Philippines Organisms and Ecosystems	Comparative Biomechanics
A, E field notes	A	A	A	A	A	A	A, B	A, E projects	A	A	A, E field notebook	A
	A, E critical thinking questions	A, B, E critical thinking questions	A	E projects	C	A	A, B	B, E projects	A, B	A		B, E projects
		B						E projects				E projects
		B		B	C		B	B	B	B	B, E field notebook	B, E projects
					C			C	C			C

CAS Curriculum Program Learning Outcomes Matrix

BIOL 195	BIOL 344	BIOL 346	BIOL 348	BIOL 349	BIOL 349L	BIOL 350	BIOL 350L	BIOL 351	BIOL 351L	BIOL 352	BIOL 352L	BIOL 358
Tropical Biology	Immunology	Endocrinology and Reproduction	Functional Neuroanatomy	Plant Physiology	Plant Physiology Lab	Cellular Biology	Cellular Biology Lab	Developmental Biology	Developmental Biology Lab	Histology	Histology Lab	Cellular and Molecular Neurobiology
A, E field notes	A	A, C	A	A	A		A	B	A	A	A	
		C	A	A, E critical thinking questions	B, E critical evaluation of literature		B, E projects		B, E projects	A	A	B, C
		C					B, E projects		B, E projects	A	A	
							B, E projects		B, E projects			B
		C						C				C

CAS Curriculum Program Learning Outcomes Matrix

BIOL 195	BIOL 379	BIOL 393	BIOL 395	BIOL 444	BIOL 446	BIOL 453	BIOL 454	BIOL 473	BIOL 473L
Tropical Biology	Biostatistics	Undergraduate Research	Extreme Physiology	Sensory Biology	Cardiovascular Physiology	Skeletal Biology	Pathophysiology	Estuarine Ecology	Estuarine Ecology Lab
A, E field notes	A	B, E projects	A, C	A, C	A, C	A	A	A	A
	A	B, E projects	C		A, C	A, E critical thinking case studies	A, E critical evaluation of literature	B, E critical evaluation of literature	
		B, E projects	C				E critical evaluation of literature		
		B, E projects				A, E critical thinking case studies			
		B, E projects	C	C	C				

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	BIOL 195	BIOL 141	BIOL 141L	BIOL 142	BIOL 142L	BIOL 241	BIOL 241L
A=Quizzes/Exams							
B=Papers							
C=Presentations							
D=Portfolios							
E=Other Please Define							

Biochemistry Program Curriculum Map

Program SLO		112/112L	113/113L	232/232L	233/233L	240*	330/330L*	360/360L	361/361L*	370/370L	493/494*	450/450L	451	490**	other
1. Demonstrate comprehensive knowledge of the key principles of biochemistry; using a strong foundation in the disciplines of chemistry.	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	c	ab	a	j	
2. Apply critical thinking to solving biochemical and chemical problems and to designing experiments.					a		ab	ab		b	c	ab	a		
3. Proficiently record, analyze, and disseminate data utilizing chemical instrumentation and software.	d	d	d	d	d		bd	bd	bd	bd		bd e			
4. Utilize chemical information resources in oral and written presentations of biochemistry-related information.							e	be	be	be	c	be	j		
5. Adhere to the highest standards of ethical behavior in the practice of science and in protecting the environment.	eg	eg	eg	eg	eg		eg	eg	eg	eg	f	eg			
6. Demonstrate the safe practice of chemistry.	h	h	h	h	h		h	h	h	h		h			
7. Prepare to succeed in employment and higher education in chemistry and related fields.												i			i

*Research track ; **Preprofessional track

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

- a = Performance on examination questions in that discipline.
- b = Execution of laboratory experiments and completion of laboratory report.
- c = Completion of written thesis and oral defense summarizing independent research project.
- d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
- e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
- f = Proper citations of literature references and correct attributions to the work of others.
- g = Proper selection, use and disposal of chemical reagents in laboratory settings.
- h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
- i = Post-graduate survey
- j = Oral presentations of advanced topics in biochemistry and completion of portfolio

Chemistry Program Curriculum Map

Program SLO		112/112L	113/113L	232/232L	233/233L	240	330/330L	362/362L	363/363L	370/370L	elective *	440/440L	493/494	other
1. Demonstrate comprehensive knowledge of the major disciplines in the chemical sciences: analytical, biochemistry, inorganic, organic, and physical chemistry.	ab	ab	ab	ab	ab	a	ab	ab	ab	ab	a	ab	c	
							a						c	
	d	d	d	d			db	db	db	db		db		
								b	b	b		b	c	
5. Adhere to the highest standards of ethical behavior in the practice of science and in protecting the environment.	eg	eg	eg	eg			eg	eg	eg	eg		eg	f	
	h	h	h	h			h	h	h	h		h		
7. Prepare to succeed in employment and higher education in chemistry and related fields.														i

* Either CHEM 350 or 450 is required for ACS certification plus one upper-division chemistry elective. Any 300+ chemistry course or above without ACS certification.

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

- a = Performance on examination questions in that discipline.
- b = Execution of laboratory experiments and completion of laboratory report.
- c = Completion of written thesis and oral defense summarizing independent research project.
- d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
- e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
- f = Proper citations of literature references and correct attributions to the work of others.
- g = Proper selection, use and disposal of chemical reagents in laboratory settings.
- h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
- i = Post-graduate surveys

Chemistry Business Program Curriculum Map

Program SLO		112/112L	113/113L	232/232L	233/233L	320	elective *	other
1. Demonstrate comprehensive knowledge of the major disciplines in the chemical sciences: analytical, industrial, and organic chemistry.	ab	ab	ab	ab	ab	ab	a	
2. Record, analyze, and disseminate data utilizing chemical instrumentation and software.	d	d	d	d				
3. Adhere to the highest standards of ethical behavior in the practice of science and in protecting the environment.	eg	eg	eg	eg	eg			
4. Demonstrate the safe practice of chemistry.	h	h	h	h	h			
5. Prepare to succeed in employment and higher education in chemistry and related fields.								i
6. Demonstrate proficiency in fundamentals of business.								jk

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

- a = Performance on examination questions in that discipline.
b = Execution of laboratory experiments and completion of laboratory report.
c = Completion of written thesis and oral defense summarizing independent research project.
d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
f = Proper citations of literature references and correct attributions to the work of others.
g = Proper selection, use and disposal of chemical reagents in laboratory settings.
h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
i = Post-graduate surveys
j = Successful completion of business courses.
k = Feedback from faculty.

Chemistry Computers Program Curriculum Map

Program SLO		112/112L	113/113L	232/232L	233/233L	362/362L	363/363L	370/370L	elective*	493/494	other
1. Demonstrate comprehensive knowledge of the major disciplines in the chemical sciences: analytical, biochemistry, inorganic, organic, and physical chemistry.	ab	ab	ab	ab	ab	ab	ab	ab	a	c	
2. Apply critical thinking to solving chemical problems and to designing experiments.					a					c	
3. Proficiently record, analyze, and disseminate data utilizing chemical instrumentation and software.	d	d	d	d	d	bd	bd	bd			
4. Utilize chemical information resources in oral and written presentations of chemistry-related information.						b	b	b		c	
5. Adhere to the highest standards of ethical behavior in the practice of science and in protecting the environment.	eg	eg	eg	eg	eg	eg	eg	eg		f	
6. Demonstrate the safe practice of chemistry.	h	h	h	h	h	h	h	h			
7. Prepare to succeed in employment and higher education in chemistry and related fields.											i
8. Demonstrate knowledge of Computing Sciences.											jk

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

a = Performance on examination questions in that discipline.

b = Execution of laboratory experiments and completion of laboratory report.

c = Completion of written thesis and oral defense summarizing independent research project.

d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.

e = Accurate records, interpretations and reports of data obtained from laboratory experiments.

f = Proper citations of literature references and correct attributions to the work of others.

g = Proper selection, use and disposal of chemical reagents in laboratory settings.

h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.

i = Post-graduate surveys

j = Successful completion of business courses.

k = Feedback from faculty.

Forensic Chemistry Program Curriculum Map

Program SLO		112/112L	113/113L	232/232L	233/233L	240	350	360/360L	370/370L	470/470L	elective *	other
1. Demonstrate comprehensive knowledge of the major disciplines in the chemical sciences: analytical, biochemistry, inorganic, organic, and physical chemistry.	ab	ab	ab	ab	ab	a	a	a	ab	ab	a	
2. Apply critical thinking to solving chemical problems and to designing experiments.					a							
3. Proficiently record, analyze, and disseminate data utilizing chemical instrumentation and software.	d	d	d	d	d			db	db	db		
4. Utilize chemical information resources in oral and written presentations of chemistry-related information.								b	b	bj		
5. Adhere to the highest standards of ethical behavior in the practice of science and in protecting the environment.	eg	eg	eg	eg	eg			eg	eg	eg		
6. Demonstrate the safe practice of chemistry.	h	h	h	h	h			h	h	h		
7. Prepare to succeed in employment and higher education in chemistry and related fields.												i

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

- a = Performance on examination questions in that discipline.
- b = Execution of laboratory experiments and completion of laboratory report.
- c = Completion of written thesis and oral defense summarizing independent research project.
- d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
- e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
- f = Proper citations of literature references and correct attributions to the work of others.
- g = Proper selection, use and disposal of chemical reagents in laboratory settings.
- h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
- i = Post-graduate surveys
- j = Oral and written presentation of physical evidence analysis in the style of a police report or an expert witness testimony

Medical Technology Program Curriculum Map

Program SLO		112/112L	113/113L	232/232L	233/233L	350	370/370L	Clinical Year	other
1. Demonstrate comprehensive knowledge of the key principles of biochemistry; using a strong foundation in the disciplines of chemistry.	ab	ab	ab	ab	ab	a	ab		
2. Proficiently record, analyze, and disseminate data utilizing chemical instrumentation and software.	d	d	d	d	d		bd		
3. Adhere to the highest standards of ethical behavior in the practice of science and in protecting the environment.	eg	eg	eg	eg	eg		eg		
4. Demonstrate the safe practice of chemistry.	h	h	h	h	h		h		
5. Demonstrate proficiency in hospital laboratory sciences.									j

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

- a = Performance on examination questions in that discipline.
- b = Execution of laboratory experiments and completion of laboratory report.
- c = Completion of written thesis and oral defense summarizing independent research project.
- d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
- e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
- f = Proper citations of literature references and correct attributions to the work of others.
- g = Proper selection, use and disposal of chemical reagents in laboratory settings.
- h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
- i = Post-graduate survey
- j = Successful completion of clinical year courses

Program Learning Outcomes (PLO)	COMM 100	COMM 115	COMM 210
PLO #1: Students shall demonstrate the written communication skills one would expect of a professional in the field of communication or mass communication.		B	B
PLO #2: Students shall demonstrate the oral communication skills one would expect of a professional in the field of communication or mass communication.	C, E	E	C, E
PLO #3: Students shall demonstrate critical thinking skills and the ability to solve problems similar to those found in the field of communication or mass communication.	C		A, B, C, E
PLO #4: Students shall demonstrate the ability to use technology common in the field of communication or mass communication to produce professional work and/or accomplish professional tasks.	C	B	C
PLO #5: Students shall demonstrate the ability to apply moral values to judge ethical cases in the field of communication or mass communication.			
PLO #6: Students shall demonstrate the ability to assess the place of communication or mass communication within society as a whole.	A	A	A
PLO #7: Students shall demonstrate the ability to use communication theory to analyze communication and communication media in both historical and contemporary contexts.	A		

Method Key:

A = Quizzes/Exams

B = Papers

C = Presentations

D = Portfolios

E = Class Discussions

COMM 215	COMM 316	COMM 415
	B	A, B
E	E	C, E
	A, B, E	A, E
		C, D, E
	A, B, E	A, E
A, B		A, E
A, B		A, E

CAS Curriculum Program Learning Outcomes Matrix

Program: Computer Information Systems

Date Completed: 07/2/2014

Program Learning Outcomes (PLO)	Course: CMPS 240	Course: CMPS 356	Course: CMPS 341	Course: CMPS 374	Course: CMPS 354	Course: CMPS 144
PLO #1: Graduates can apply the principles of the software process throughout their professional career as developers or administrators, and are prepared to apply their knowledge of a modern business environment in the software process.						
PLO #2: Graduates are prepared for continued professional growth as a computing professional.						
PLO #3: Graduates are prepared to respond as a computing professional when addressing social and ethical issues.						
PLO #4: Graduates are prepared to work in a collaborative (team) environment.	E, team projects	E, team projects	E, team projects	E, team projects	E, team projects	
PLO #5: Graduates are capable of preparing and presenting oral presentations.	E, oral presentations	E, oral presentations				E, oral presentations
PLO #6: Graduates are capable of constructing various types of written documentation during the various phases of the software process.						

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

Course: CMPS 490	Course: CMPS 330	Course: CMPS 358	Course: CMPS 331
E, exit survey, alumni survey			
E, Exit Survey, Alumni Survey, ETS Exam			
E, Exit Survey, Alumni Survey			
		E, team projects	
E, oral presentations			E, oral presentations
	E, written papers		

CAS Curriculum Program Learning Outcomes Matrix

Program: Computer Science
Date Completed: 05/20/2014

Program Learning Outcomes (PLO)	Course: CMPS 240	Course: CMPS 490, instructor	Course: CMPS 352	Course: CMPS 374	ACM club data	Course: CMPS 490, Advisor
PLO #1: An ability to apply knowledge of computing and mathematics appropriate to the discipline;	a					
PLO #2: An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;		e, project rubric				
PLO #3: An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs;		e, project rubric				
PLO #4: An ability to function effectively on teams to accomplish a common goal;			e, project rubric			
PLO #5: An understanding of professional, ethical, legal, security, and social issues and responsibilities;				a		
PLO #6: An ability to communicate effectively with a range of audiences;		e, project rubric				
PLO #7: An ability to analyze the local and global impact of computing on individuals, organizations and society;				a		
PLO #8: Recognition of the need for, and an ability to engage in, continuing professional development;					e, data analysis	
PLO #9: An ability to use current techniques, skills, and tools necessary for computing practices.						e, project rubric
PLO #10: An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices;						e, project rubric

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)		Course: CMPS 240	Course: CMPS 490, instructor	Course: CMPS 352	Course: CMPS 374	ACM club data	Course: CMPS 490, Advisor
PLO #11: An ability to apply design and development principles in the construction of software systems of varying complexity.							e, project rubric

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

English Major Curriculum Map (April 2014)

Learning Objectives for the English Major V V V	Course Categories > > >	ENLT 140 (the traditional gateway course for the major)	Other 100-level ENLT courses (including FYSs)	200- & 300-level ENLT electives	200 & 300-level ENLT courses meeting Area Requirements	200- & 300-level ENLT courses meeting the Theory Intensive requirement	ENLT 490 & 491
1. Students will be able to execute literary arguments based on close readings of texts with attention paid to genre and thematic focus.		X [B, C, D, E]	X [A - E]	X [A - E]	X [A - E]	X [A - E]	X [B, D]
2. Students will be able to demonstrate knowledge of the key texts, authors, and historical development of Anglophone Literature.					X [A - E]		
3. Students will be able to articulate knowledge about diversity through examination of Multi-Ethnic or Postcolonial/Colonial texts.					X [A - E]	X [A - E]	
4. Students will be able to apply different theoretical frameworks to literary texts in order to produce multiple readings and interpretations.				X [A - E]	X [A - E]	X [A - E]	X [B, D]
5. Students will be able to employ distinct critical perspectives in their independent ability to evaluate and interpret literary texts.				X [A - E]	X [A - E]	X [A - E]	X [B, D]

Codes:

- A: Classroom lectures
- B: Classroom discussions
- C: Reading quizzes
- D: Formal writing assignments
- E: Hour-long & Final Exams

Please note: 1) there is considerable overlap between ENLT courses covering specific historical periods, ENLT courses that include multi-ethnic &/or colonial / postcolonial texts, & Theory-intensive ENLT courses; 2) although some 200- & 300-level ENLT courses do not include a lecture component, & some do not include quizzes, all 200- & 300-level ENLT courses include required papers & exams; & 3) English Majors can also count THTR courses & some WRTG courses as electives for the Major.

CAS Curriculum Program Learning Outcomes Matrix

Program: Theatre

Date Completed: June 23, 2014

Program Learning Outcomes (PLO)		Sample Course: PSYC 100	Course:	Course:	Course:	Course:	Course:	Course:
Sample PLO: Students should be able to recognize and articulate the foundational assumptions, central ideas and dominant criticisms of the psychoanalytic, Gestalt, behaviorist, humanistic, and cognitive approaches to psychology		A, B	THTR 110	THTR 211	THTR 212	WRTG 215	Overall	
PLO #1: Awareness of the complex nature of the human condition acquired through aesthetic and intellectual perceptions as evidenced in various modes of theatrical production.								E: Senior Exit Survey
PLO #2: Knowledge of the various means (acting, directing, designing, constructing, playwrighting, etc.) through which a theatrical concept is realized.			A				D	
PLO #3: Knowledge of plays that are representative of the development of theatre and drama.				A		A		
PLO #4: Knowledge of theatre history, including its cultural context and its modes of production.				A		A		
PLO #5: The ability to analyze and interpret plays and other theatrical events paying special attention to the skills involved in acting and performance, directing, design and production, and playwrighting.							D	
PLO #6: The ability to reach an audience effectively through at least one of the aforementioned theatrical skills.							D	
PLO #7: The ability to express in performance, in writing, in speaking and through other modes of communication, the results of research, critical analysis and other findings and discoveries.				B, C		B, C		E
PLO #8: The ability to respond as a critically informed member of a theatre audience.			B					

CAS Curriculum Program Learning Outcomes Matrix

Course:	Course:
THTR 110	
A	
B	

CAS Curriculum Program Learning Outcomes Matrix

Program:

Date Completed:

Program Learning Outcomes (PLO)	Sample Course: PSYC 100	history 140	hist 490	Course:	Course:	Course:	Course:
Sample PLO: Students should be able to recognize and articulate the foundational assumptions, central ideas and dominant criticisms of the psychoanalytic, Gestalt, behaviorist, humanistic, and cognitive approaches to psychology	A, B						
History majors will be able to conduct historical research, including the ability to formulate and research questions and locate historical data.		a, b	a, b				
History majors will write historiographic essays that identify and compare the historical analyses of a subject.		b	b				
History majors will speak effectively about historical issues.		c	c				
PLO #4:							
PLO #5:							
PLO #6:							
PLO #7:							

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

Program: International Studies
Date Completed: Summer 2014

Program Learning Outcomes (PLO)	Course:	Course:	Course:	Course:	Course:	Course:
	IS390	HIST214, PS330 or PS384				
PLO #1: International Studies majors are able to conduct research regarding contemporary global issues, including the formulation of research questions and the ability to locate source materials.		B				
PLO #2: International Studies majors understand the role of credible sources in the field of world politics.						
PLO #3: International Studies majors understand the role of the United States in world affairs and have insight into the lives, cultures, economics, and politics of other regions of the world.						
PLO #4: International Studies majors are able to communicate effectively in writing and orally global and contemporary issues, results of research and analyses.	C, E					
PLO #5: International Studies majors will have basic reading skills in a foreign language.						
PLO #6:						
PLO #7:						

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define -- student evaluation of presentations (peer to peer evaluations)

Biochemistry, Cell & Molecular Biology Program Curriculum Map

Program SLO																				
1. Demonstrate mastery of the key principles of Biochemistry and Molecular Biology; developing familiarity with the molecular components of cells, their interactions in metabolism, the flow of genetic information resulting in their synthesis and in the synthesis of cell structures, and their function in cellular and organismal processes.	a																			
	a	a	a	a	a	a														
		bc																		
2. Acquire laboratory skills, including safety skills, in both basic and advanced experimental techniques. This will include use of the scientific method in the design of experiments and development of critical thinking skills in the analysis of the results and the overall significance of those results to the experiments and research undertaken.																				
3. Identify and analyze critically major topics at the forefront of Biochemistry and Molecular Biology.																				
4. Demonstrate discipline-specific oral and written communication.		bc																		
5. Develop required collaboration, interpersonal, and team-building skills required for their post-graduate endeavors.		b																		
6. Apply their degrees to their careers.																				

Methods of Assessment:

- a = Performance on examination and quiz questions in that discipline
- b = Execution of laboratory experiments and completion of laboratory report/paper
- c = Recording of experimental results with data to support reasonable conclusion
- d = Completion of oral presentations on current BCMB topics
- e = Completion of portfolio on advanced current BCMB topics
- f = Tracking of post-graduate destinations
- g = Post-graduate survey

*Electives: one of Biol 250, Biol 344, and Biol 350; BCMB 464

Environmental Science Program Curriculum Map

Program SLO		CHEM 112/112L	CHEM 113/113L	CHEM 232/232L	CHEM 233/233L	CHEM 370/370L	CHEM 340	BIOL 141/142	BIOL 371	BIOL 379	Major Electives	NSCI 201	ESCI 440/441	ESCI 480/481	ESCI 493/494	other
1. Environmental Science majors will have a sound knowledge of both chemistry and biology, and the biological and chemical aspects of environmental science.	ab	ab	ab	ab	ab	ab	af	ab	ab	ab	ab	a	j	k		
2. Environmental science majors will know how to apply critical thinking to the analysis and devising of possible solutions to conservation problems, sustainability issues, and environmental problems.							a	b	ab	abe	ab	a	j	k	b	
3. Environmental Science majors will have an appreciation of the social and economic implications of environmental science.									a			a				a
4. Environmental Science majors have a sound knowledge of sustainability and how science can contribute to sustainable development.						b			a				j			a
5. Environmental Science majors will be proficient in the recording, analysis, and dissemination of data utilizing modern techniques, instrumentation and software.	bde g	bde g	bde g	bde g	bde g	bde g		bde	bde	abe	abe				bde	
6. Environmental Science majors will be well prepared to succeed in employment in the public and private sector, to continue their education in environmental science, related fields, environmental education, and environmental law.	h	h	h	h	h	h		abe f	abe f	abe	abe f	a		k	bde f	i

*

Methods of Assessment: (b, d-h only pertain to lab courses; a only pertains to lecture)

- a = Performance on examination questions in that discipline.
- b = Execution of laboratory experiments and completion of laboratory report.
- c = Completion of written thesis and oral defense summarizing independent research project.
- d = Recording of experimental results (notebooks, datasheets, etc.) with data to support reasonable conclusion.
- e = Accurate records, interpretations and reports of data obtained from laboratory experiments.
- f = Proper citations of literature references and correct attributions to the work of others.
- g = Proper selection, use and disposal of chemical reagents in laboratory settings.
- h = Application of recognized safety principles in introductory laboratory settings as indicated on grading rubrics.
- i = Post-graduate surveys
- j = Performance on presentations in that discipline
- k = Performance on evaluation by outside evaluator

CAS Curriculum Program Learning Outcomes Matrix

Program: Media and Information Technology

Date Completed: 7/7/14

Program Learning Outcomes (PLO)	MIT 490	Alumni Survey	
PLO #1: Students will have a strong background in digital technology and its application	E – project		
PLO #2: Students will be prepared to implement solutions to real-life problems	E – project		
PLO #3: Students will be prepared to communicate effectively regarding technical matters	C		
PLO #4: Students will be prepared to enter an appropriate graduate program		E – survey	
PLO #5: Students will be cognizant of ethical and societal issues related to digital technology		E – survey	

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

Program: Neuroscience

Date Completed:

Program Learning Outcomes (PLO)	NEUR 110	NEUR 111	NEUR 231 & 231L	NEUR 330	NEUR 339	NEUR 348	NEUR 358	NEUR 493	NEUR 444
PLO #1: demonstrate basic competency in the fields of Biology, Chemistry, and Psychology.			A				A	B	A, B, C
PLO #2: demonstrate mastery within foundation courses focused on Neuroscience			A, C	B	C	A	A		
PLO #3: obtain, evaluate, and utilize scientific information and apply it to research questions in the field of Neuroscience				B, C	C		B, C	B	B
PLO #4: apply the scientific method by developing and testing a hypothesis in the field of Neuroscience				B, C				B	
PLO #5: be capable of communication scientific information orally	C	C	C	C	C	C	C		C
PLO #6: be capable of communicating information in writing		B	B	B			B	B	A, B

Neuroscience Program Learning Outcomes

Students will:

1. demonstrate basic competency in the fields of Biology, Chemistry, and Psychology.
2. demonstrate mastery within foundation courses focused on Neuroscience
3. obtain, evaluate, and utilize scientific information and apply it to research questions in the field of Neuroscience
4. apply the scientific method by developing and testing a hypothesis in the field of Neuroscience
5. be capable of communication scientific information orally
6. be capable of communicating information in writing

Method Key:

A= quizzes/exams

B=Papers

C=Presentations

D=Portfolios

E+ Other Please define

Latin American Studies Curriculum Map

Student Learning Outcomes of Latin American Studies (Major and Concentration):

Students of the Latin American Studies' courses will:

- (a) explain the historical, political, cultural, or economic development of Latin America.
- (b) describe how Latin Americans have contemplated the human condition and the need for self-transcendence.
- (c) demonstrate how Latin America's natural history has had a tremendous influence on the development of the cultures of the people who live there, and how humans have adapted to and altered their environment.
- (d) discuss how literary works in Latin America represent cultural, social, and political issues such as the articulation and negotiation of class, racial, and sexual identities.
- (e) communicate with proficiency in the target language.¹

Assessment Methods:

A. Direct Measures

All courses in LAS measure student success by the following:

1. Exams and/or Research Papers: Student examinations and research papers are used to assess content knowledge as well as the research and writing skills of students.
2. Oral presentations (Individual or group presentations): In this assignment, students discuss and analyze a reading or a research topic. The assignment creates more opportunities for the students to develop critical thinking and oral skills.

In the specific case of the courses in the cognate area:

3. Linguistic proficiency' success in the target language (Spanish and/or Portuguese) will be assets according to the ACTFL proficiency guidelines. See attached guidelines followed by the World Languages and Cultures Department.

B. Indirect Measures

¹ For the learning outcomes below concerning language proficiency listed, the desired benchmark for linguistic proficiency in the target language is the intermediate/high level or above according to the ACTFL proficiency guidelines. See guidelines followed by the World Languages and Cultures Department.

4. Alumni Survey – Students who have graduated are surveyed (Spring 2014) to determine whether they pursued further education or gained employment and were asked what aspects of the program most prepared them for further education or a career.
5. Exit Survey – Seniors take an exit survey at the end of the academic year. In this survey, students are asked in what specific ways they benefitted from the program as well as their impressions in regard to various aspects of the program.
6. Student's feedback of at least one extra cultural event sponsored by Latin American Studies.

The following matrix shows assessment methods (numbers from 1 to 6 as indicated above) with specific student learning outcomes (letters from a to e as indicated above) per each LAS course (Fall 2013-Spring 2014)

Assessment Learning Outcomes X Assessment Methods Matrix (per course)
Fall 2013-Spring 2014

Outcome Assessment Measure by course	A	B	C	D	E
SPRING 2014					
ENLT 251	1,2,4,5	1,2,4,5	1,2,4,5	1,2,4,5	
<i>Borderlands Writing</i>					
LAWS 384	1,2,4,5	1,2,4,5	1,2,4,5		
<i>Working for Justice</i>					
PHIL 242	1,2,4,5,6	1,2,4,5,6	1,2,4,5,6	1,2,4,5,6	
<i>Latin Amer. Thought</i>					
PS 295	1,3,4,5,6	1,3,4,5,6	1,3,4,5,6		1,3,4,5,6
<i>Contem. Mex. Culture/Pol</i>					
PS 323	1,2,4,5	1,2,4,5	1,2,4,5		
<i>Central America</i>					
SPAN 312			1,3,4,5	1,3,4,5	1,3,4,5
<i>Spanish Composition</i>					
SPAN 314	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5
<i>Latin American Culture and Civili</i>					
SPAN 384	1,2,3,4,5	1,2,3,4,5		1,2,3,4,5	1,2,3,4,5
<i>Colonial Cities</i>					
SPAN 315		1,2,3,4,5			1,2,3,4,5
<i>Medical Spanish</i>					

Outcome Assessment Measure by course	A	B	C	D	E
FALL 2013					
HIST 125 <i>Colonial Latin America</i>	1,2,4,5	1,2,4,5	1,2,4,5		
HIST 215 <i>Church/Society/Latin America</i>	1,2,4,5			1,2,4,5	
PS 219 <i>Survey of Latin Am Polit</i>	1,2,4,5	1,2,4,5	1,2,4,5		
SPAN 311 <i>Spanish Conversation</i>			1,3,4,5	1,3,4,5	1,3,4,5
SPAN 320 <i>Intro/Hispanic Literature</i>	1,2,3,4,5	1,2,3,4,5		1,2,3,4,5	1,2,3,4,5
SPAN 335 <i>Service and Hispanic Community</i>	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5
T/RS 250 <i>Latin Am Liberation Theology</i>	1,4,5	1,4,5			
PORT 110 <i>Intense Elementary</i>				1,2,3,4,5	1,2,3,4,5

WS Curriculum Map

Women's Studies Program (WSP) Student Learning Outcomes:

WSP 1 Upon completion of the women's studies program, students will be able to:

Demonstrate an understanding of women's experiences in history, society and culture and be able to critically analyze those experiences

WSP 2 Articulate an understanding of the complexity of power structures and modes of authority, especially as they pertain to structural and institutional modes of power

WSP3 Understand and provide critical commentary on key works of feminist scholarship and creative work

WSP 4 Have a sophisticated understanding of feminist perspectives, including points of commonality as well as debates among feminists.

Specific objectives (student learning outcomes) for each of the content areas of the major:

Foundational/praxis (FP) courses:

FP SLOs:

After taking the foundation/praxis courses, students will have a basic understanding of:

FP 1 the diversity of feminisms, including debates within the feminist movement and a sense that there are differences historically and cross-culturally

FP2 theories that motivate the social, cultural, political, and literary studies of women, gender, and feminist issues

FP 3 the relationship between theory and practice and the importance of that relationship in women's studies, and

FP 4 their own leadership skills and abilities as social change agents, informed by the scholarship and practice of feminist leadership

Area A: Historical Knowledges (material, cultural, social)

Learning outcomes for Area A. Area A aims to satisfy the following learning outcomes:

Students will understand:

A1 A foundational grounding in women's history/ histories, including historical accounts of the emergence of the women's movement, in the US and globally

A2 Changing perspectives on gender, women, and feminist issues over time; the development and evolution of ideas on these issues

A3 An appreciation of the richness and diversity of feminisms

A4 An understanding of the historical roots of contemporary feminist concerns

Students who choose to take multiple courses in this area will likely achieve all of these outcomes.

Area B: Social and Behavioral Sciences:

Area B aims to satisfy the following learning outcomes:

Students will understand:

B1 cross-cultural studies of women's lives and gender issues

B2 the intersectionality of women's issues with those of other types of oppression

B3 how various types of research tools and social/behavioral science research methods are used to study women and gender

B4 Institutional, structural, and behavioral analysis of gender and/or women's lives

Students who choose to take multiple courses in this area will likely achieve all of these outcomes.

Area C: Representations and Expressions (creative, literary, and visual arts)

Area C aims to satisfy the following learning outcomes:

Students will understand:

C1 how a multiplicity of feminist perspectives and movements demonstrate the cultural and/or global diversity of women's issues and concerns

C2 the ways in which various literary and/or artistic works expose the reality of women's lives and concerns, including their social and/or political views, issues of sexuality, and the relationship between the personal and the political

C3 how and why literary and/or artistic works have been utilized by women writers/artists to express women's issues, find women's voices, and/or explore women's sense of agency

C4 how women are represented in both literary and/or visual arts

Students who choose to take multiple courses in this area will likely achieve all of these outcomes.

"Theory Intensive" Courses meet the following SLOs (in addition to any area objectives/goals above that the also fulfill):

T1 Students will learn how to read relevant secondary literature that employs at least one feminist theoretical perspective and discuss its relationship to primary texts.

T2 Students will learn how to write lengthier argumentative essay or research papers that emphasize the use of research methodologies and/or style sheets appropriate to that course and assignment

T3 Students will learn relevant feminist theories and learn to reflect on the relationship between feminist theory and practice.

WS Electives must meet 1 or more of the WSP (women's studies program) SLOs.

Assignments key (indirect measures): Q: Tests, exams, quizzes; E: Essay papers; P: Project; G: Group project; O: Oral presentation; J: Journal

Program SLOs & Cluster SLOs	WP 1	WP 2	WP 3	WP 4	FP 1	FP 2	FP 3	FP 4	A 1	A 2	A 3	A 4	T
Direct assessment measures by course													
Phil 218: Feminism: Theory & Practice	Q	Q, E, G	Q, E	G, P	Q	Q, E, G	G, P	G, E					
Phil 213 Philosophy of Women*													
WOMN 215/SOC 315 Feminism and Social Change	E	E	E, O	E	O	E	G, E	G					
SOC 220 Social Stratification	Q, E	Q, E	Q, E	Q	Q	Q, E	Q	G					
GERM 320E/F Sex in the City	E	E	E	E					E, O	E, O	E, O	E	
INTD 215 Finding Women in Local History, I & II	E, G- O	E	E	E, G- O					E, G- O	E	E	E, G- O	
Hist 213 Gender and Family in Latin America	P, O	P	P	O, P					P, O	P, O	P, O	P, O	
Hist 238 History of American Women I	Q, O	Q	Q	Q					E, Q	E, Q, O	Q	E, Q, O	

Hist 239 History of American Women II	Q, O	Q	Q	Q						E, Q	E, Q	Q	E, Q	O	
T/RS 218 Women in Christianity	E, Q	E, Q	E, Q	E, Q							E		E, Q	E, Q	P

*course has not been taught in past 3 years; no recent data

Program SLOs & Cluster SLOs	WP 1	WP 2	WP 3	WP 4	B 1	B 2	B 3	B 4	T
Assessment Measure by course									
COMM 229 Gender & Communication	E, Q	E, Q	E, Q	E, Q		E, Q	E, Q	P	
LAWS 395 Women & Development	E, O	E, O	E, O	E, O	O, J	E	E, O, J	E, O, J, P	E
PS 216 Women's Rights & Status	E	E	E	E			E	E, O	
PS 227 Women, Authority, & Power	Q	Q, E	Q	Q		Q	Q	E	
PS 335 Women in the Global Community	E	E	E	E, O	E, O	E, O	E	O	
SOC 224 Race & Ethnic Relations	Q	Q			Q, E, G-O	Q	Q		
SOC 230 Sociology of Globalization	E, Q	E, G-O, Q			Q, E	G-O, Q	Q, E		

[illegible]

Francophone Cinema*							
List 325E/F Gender in Italian Cinema*							
SPAN 430 Hispanic Women Writers*							

Program SLOs & Cluster SLOs	WP 1	WP 2	WP 3	WP 4	T
Assessment Measure by course					
CHS 337: Counseling Girls & Women		Q, O	Q, O	Q, O	
ENTL 135x Feminism and Jesuit Education	Q, E, O	Q, E	Q, E, O	Q, E	
NURS 111 Women's Health					
PHIL 326 Adv. Topics in Feminist Philosophy	Q, E	Q, E	Q, E	Q, E	Q, E
WOMN 380-1 Women's Studies Internship	P	P		P	
LAWS 384 ST: Working for Justice	Q, E, O	Q, E, G, O	Q, E, G, O, Portfolio	Q, E, G, O, Portfolio	
PHIL 331: Feminist Philosophy of Science	Q	Q	Q, E, O	Q, E	Q, E

CAS Curriculum Program Learning Outcomes Matrix

Program: Biomathematics

Date Completed: 05/19/2014

Program Learning Outcomes (PLO)	Sample Course: PSYC 100	MATH 114	MATH 221	MATH 222	MATH 310	MATH 341	MATH 351
Sample PLO: Students should be able to recognize and articulate the foundational assumptions, central ideas and dominant criticisms of the psychoanalytic, Gestalt, behaviorist, humanistic, and cognitive approaches to psychology	A, B						
PLO #1: Gain College-level Knowledge in Applied Mathematics		A, B, C, D, E, F	A, B, C	A, B, C	A, B, C	B, C	
PLO #2: Construct Models to solve Real-World Problems		A, B, C, D, E, F	A, B, C	A, B, C	A, B, C	B, C	
PLO #3: Competency in Analytical and Critical Reasoning							A, B, C, D

CAS Curriculum Program Learning Outcomes Matrix

MATH	MATH
114	463
A, B, C, D, E, F	B, C, D, E
A, B, C, D, E, F	B, C, D, E
	B, C, D, E

CAS Curriculum Program Learning Outcomes Matrix

Program: Mathematics

Date Completed: 04/14/2014

[illegible]

Method Key:

A=Quizzes

B=Exams

C=Graded Homework

D=Projects

E=Presentations

CAS Curriculum Program Learning Outcomes Matrix

MATH 114	MATH 448-9
-------------	---------------

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	Sample Course:	MATH 114	MATH 221	MATH 222	MATH 299	MATH 351	MATH 446-7
F=Pre-testing/Post-testing	PSYC 100						

CAS Curriculum Program Learning Outcomes Matrix

Program: Philosophy

Date Completed: April 16, 2014

[illegible]

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

Program: Biophysics

Date Completed: May 2014

Program Learning Outcomes (PLO)	PHYS 140/140L	PHYS 141/141L	PHYS 270
1. Graduates will have demonstrated a breadth and depth of understanding in physics, chemistry and biology sufficient to do advanced undergraduate course work in each of these fields.	A,B,E- Electronic Notebook	A	A,B
2. Graduates will have completed at least fifteen credits of advanced course work (at the third and fourth year level) in a combination of physics and/or chemistry and/or biology.			
3. Graduates will have gained admission to graduate studies in secondary education science, biophysics or bioengineering; or medical, dental or optometry studies; or employment in a medical or scientific field			

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Transcript and CAPP sheet review

F=Exit Survey

CAS Curriculum Program Learning Outcomes Matrix

PHYS 141/141L	PHYS 270L	PHYS 350	PHYS 352	ENGR 253L/254L	OTHER	Senior/Exit Survey
A	B				E	
		A	A,C		E	
					E	F

Computer Engineering	Column1	Column2	Column3
Course:	Course Name:	A	B
Phys 140	Elements of Physics I		
Phys 140L	Elements of Physics I Lab		
Phys 141	Elements of Physics II		
Phys 141L	Elements of Physics II Lab		
E/CE 240	Intro to Computer Engineering		
EE 241	Circuit Analysis (EE 241/L)		2
EE 243L	Digital Systems Design Lab		
Engr 250	Statics		
Engr 252	Solid State Materials Science		
Engr 253	Intro to CAD		
Engr 254	3D - CAD		
Phys 270	Elements of Modern Physics		
E/CE 340	Digital Systems	2	2
Engr 343/L	Electronic Circuits I & Lab	2	2
Engr 344/L	Electronic Circuits II & Lab		2
EE 346	Digital Signal Processing	2	
Engr 350	Applied & Engineering Math		
EE 449	Computer Interfacing	2	2
EE 450	Control Systems	2	
EE 451	Communication Systems	2	2
EE 454	Robotics Design Project	2	2
EE 447	Electromagnetics I		
EE 448/L	Electromagnetics II		
Strong Support - number of courses		7	7
Moderate Support - number of courses			

Electrical Engineering	Column1	Column2	Column3
Course:	Course Name:	A	B
Phys 140	Elements of Physics I		
Phys 140L	Elements of Physics I Lab		
Phys 141	Elements of Physics II		
Phys 141L	Elements of Physics II Lab		
E/CE 240	Intro to Computer Engineering		
EE 241	Circuit Analysis (EE 241/L)		2
EE 243L	Digital Systems Design Lab		
Engr 250	Statics		
Engr 252	Solid State Materials Science		
Engr 253	Intro to CAD		

Engr 254	3D - CAD		
Phys 270	Elements of Modern Physics		
E/CE 340	Digital Systems	2	2
Engr 343/L	Electronic Circuits I & Lab	2	2
Engr 344/L	Electronic Circuits II & Lab		2
EE 346	Digital Signal Processing	2	
Engr 350	Applied & Engineering Math		
EE 449	Computer Interfacing	2	2
EE 450	Control Systems	2	
EE 451	Communication Systems	2	2
EE 454	Robotics Design Project	2	2
EE 447	Electromagnetics I		
EE 448/L	Electromagnetics II		
Strong Support - number of courses		7	7
Moderate Support - number of courses			

Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11
C	D	E	F	G	H	I	J
				2			
2	2		2	2			
				2			
				2			
				2			
2		2		2	1	2	2
	2	2		2			
2	2	2	2	2	1		
		2		2	1	2	2
	2			2			
2	2	2	2	2		2	2
2		2		2	1		
		2			1	2	2
2	2	2	2	2	2	2	2
6	6	8	4	13	1	5	5
					5		

Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11
C	D	E	F	G	H	I	J
				2			
2	2		2	2			
				2			

				2			
				2			
2		2		2	1	2	2
	2	2		2			
2	2	2	2	2	1		
		2		2	1	2	2
	2			2			
2	2	2	2	2		2	2
2		2		2	1		
		2			1	2	2
2	2	2	2	2	2	2	2
6	6	8	4	13	1	5	5
					5		

Column12
K
2
2
2
2
2
2
6

Column12
K
2

2
2
2
2
2
6

CAS Curriculum Program Learning Outcomes Matrix

Program: Engineering Management

Date Completed: April 2014

Program Learning Outcomes (PLO)	PHYS 140/140L PHYS 141/141L	E/CE 240	EE 241/241L	ENGR 252	PHYS 270/270L
PLO #1: An ability to apply knowledge of mathematics, science, and engineering to solve technical and business problems.	A		A, E Homework, E Inclass work, E Labs	A, B	A
PLO #2: An ability to design and conduct experiments as well as to analyze and interpret data.	B, E- Electronic Notebook		E Labs		B
PLO #3: An ability to plan and design a system, component, or process to meet desired needs.			A, E Homework E Labs		
PLO #4: An ability to work effectively on multi-disciplinary teams to accomplish an objective, and make significant contribution to its outcome.	B, E- Electronic Notebook		B Lab Project Report C Lab Project E Lab Project E Inclass group work		
PLO #5: An ability to communicate effectively both verbally and in writing.			B Professional Ethics Report, C Professional Ethics Presentation Lab Project Report C Lab Project Presentation E Labs	A, C	B
PLO #6: The broad education necessary to understand the impact of technical and business solutions in a global, economic, environmental, ethical and societal context.			B, A		
PLO #7: A recognition of the need for, and an ability to engage in life-long learning.					

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	PHYS 140/140L PHYS 141/141L	E/CE 240	EE 241/241L	ENGR 252	PHYS 270/270L
				E, current literature	
PLO #8: A knowledge of contemporary issues.					
PLO #9: An ability to use the techniques, skills, and modern engineering tools necessary to solve technical and business problems.			A, E Homework, E Inclass work	A, E Home-work	

Method Key:
 A=Quizzes/Exams
 B=Papers
 C=Presentations
 D=Portfolios
 E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

	EE 343/343L EE 344/344L	Course:
E/CE 240	A, E Homework, E Inclass work, E Labs and Lab Project	
	E Labs	
	A, E Homework and LabView E Labs and Project E Engineering Standards Tutorial A Engineering Standards Quizzes	
	C Lab Project E Lab Project	
	B Lab Project Report C Lab Project Presentation E Labs	
	B, A	

CAS Curriculum Program Learning Outcomes Matrix

	EE 343/343L EE 344/344L	Course:
E/CE 240		
	A, E Homework, E Inclass work	

CAS Curriculum Program Learning Outcomes Matrix

Program: Physics

Date Completed: April 2014

Program Learning Outcomes (PLO)	PHYS 140/140L	PHYS 141/141L	PHYS 270	PHYS 270L	PHYS 350	PHYS 352
1. Knowledge: The student will demonstrate knowledge and comprehension in several basic and applied fields of Physics.	A	A	A,B	B	A	A,C
2. Problem Solving: The student will demonstrate problem-solving skills in several basic and applied fields of Physics.	A	A	A	B	A	A
3. Laboratory Work: The Student will demonstrate good experimental technique, including proper use of equipment, performance of experiment and analysis of results. Furthermore the student will assess experimental uncertainty and make meaningful comparisons between experiment and theory and thereby more fully understand their observations of physical phenomena.	B, E- Electronic Notebook	B, E- Electronic Notebook	B	B		
4. Written Communications: The student will demonstrate effective written communication skills through clear and concise problem solving, reports written to satisfy the requirements of a variety of laboratory courses and topics, and acceptable research papers.	B, E- Electronic Notebook	B, E- Electronic Notebook	A,B	B		
5. Oral Communications: The student will demonstrate effective oral communication skills in oral presentations in courses, seminars, and at scientific meetings.			A,B			C
6. Professional Development: The student will demonstrate the protocols of the professional physicist by attending meetings and giving papers.						

Method Key:

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	PHYS 140/140L	PHYS 141/141L	PHYS 270	PHYS 270L	PHYS 350	PHYS 352
---------------------------------	---------------	---------------	----------	-----------	----------	----------

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

[illegible]

CAS Curriculum Program Learning Outcomes Matrix

PHYS 141/141L	PHYS 371	PHYS 372	PHYS 447	PHYS 448/448	PHYS 448L	PHYS 493/494	CMP5134	ENGR 253L/254L	MATH 114	MATH 221/222	MATH 341
------------------	----------	----------	----------	-----------------	--------------	-----------------	---------	-------------------	-------------	-----------------	-------------

CAS Curriculum Program Learning Outcomes Matrix

Political Science

April 25, 2014

Program Learning Outcomes (PLO)	Course: 130	Course: 131	Course: 212	Course: 217	Course: 240	Course: 313	Course: 314
PLO #1 Graduates will be able to demonstrate proficiency in the core body of knowledge contained in the four basic sub-fields of the discipline: American National Government and Politics, Comparative Government and Politics, International Relations, and Political Theory.	A, ETS, SES	A, ETS, SES	ETS, SES	A, ETS, SES		ETS, SES	ETS, SES
PLO #2 Graduates will be able to identify issues related to the creation of injustices and the pursuit of social justice within each of the subfields of the discipline	A, ETS, SES	ETS, SES	ETS, SES	A, ETS, SES		ETS, SES	ETS, SES
PLO #3: Graduates will be able to demonstrate an awareness of the politics and cultures of the United States and demonstrate an ability to compare and contrast these with the politics and cultures of other peoples.	A, ETS, SES		ETS, SES	A, B, ETS, SES	ETS, SES		
PLO #4: Graduate will be able to articulate a research question, and derive testable hypotheses from this question. They will identify appropriate methods for testing the hypotheses.					A, B, C, ETS, SES		
PLO #5: Graduates will be able to differentiate empirical from normative questions about politics, and be aware of the major Western and non-Western schools of thought regarding the latter.			ETS		A, ETS,	ETS	ETS
PLO #6: Graduates will be able to critique arguments made in defense of or in opposition to public policy positions.	A	x	x	B	x		
PLO #7: Graduates will be able to articulate and defend orally a public policy position, including supporting that position with quantitative or qualitative evidence.		C					
PLO #8: Graduates will be able to articulate and defend in writing a public policy position, including supporting that position with quantitative and/or qualitative evidence.				A, B			

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	Course: 130	Course: 131	Course: 212	Course: 217	Course: 240	Course: 313	Course: 314
PLO #9: Graduates will leave the program with an expanded interest in, and excitement for, politics.	SES	SES	SES		SES	SES	SES
PLO #10: Graduates will become engaged members of their civic communities.	SES	SES	SES	C, SES	SES	SES	SES

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

SES = Senior Exit Survey (an indirect measure)

ETS = Major Field Test in Political Science

x - no assessment method identified to date

PSYCHOLOGY CURRICULUM PROGRAM LEARNING OUTCOMES MATRIX

PLO = Program Learning Outcome

Course = Specific Courses in Program

Method = Method of Assessment of Course PLO – e.g., quizzes, e

	REQUIRED										Social Developmental Core ^b		Individual Processes Core ^b	
	110* (majors)	110L* (majors) ^a	210	330	330L	390*	490*	491	220	221	224	225		
Course / PLO														
Knowledge Base				A,B,C	A,B,C			A,B Class Discuss.	A,B Jigsaw Activity	A, B Clicker Questions Class Participation	A, C	A,B Case Studies		
Scientific Inquiry & Critical Thinking			A Homework SPSS	A,B,C	A,B,C			B Class Discuss. Oral Exam	A,B	A,B Clicker Questions Class Participation	A	A,B Case Studies		
Ethical & Social Responsibility in a Diverse World				A CITI certi- fication	A CITI certi- fication				B Group Project Video, Poster. Or Game					
Communication				B,C SPSS Literature Searches	B,C SPSS Literature Searches			A,B Class Discuss.	Social Psych. In the Media					
Professional Development								B Class Discuss.						

^a only required for entering freshmen majors

^b must take one from each core pair plus a fifth core course

* Not offered in Spring 2014

A = Quizzes/Exams

B = Papers

C = Presentations

^c 12 credits

^d Elective courses with significant contributions to department

ams, presentations, assignments, etc.

Physiological Core ^b		Learning Core ^b		Electives ^c
230	231*	234	235	
A Post Questions		A CogLab Article Critiques	A	
A, B Design Projects Article Critiques		A CogLab Article Critiques	A Design research Projects Media Critiques	
B				
C	Data Base Search		B, C	
A, B, C				

it program learning outcomes

CAS Curriculum Program Learning Outcomes Matrix

Program: Criminal Justice

Date Completed: May 15th, 2014

Program Learning Outcomes (PLO)	Sample Course: PSYC 100	Course: S/CJ 220--ns	Course: CJ 110--Intro. To Criminal Justice	Course: S/CJ 213--Criminology	Course: Soc 110--Introducti no to Sociology	Course: S/CJ--219Ameri can Policing	Course: S/CJ 218--American Court System
Sample PLO: Students should be able to recongize and articulate the foundational assumptions, central ideas and dominant criticisms of the psychoanalytic, Gestalt, behaviorist, humanistic, and cognitive approaches to psychology	A, B				SEE SOC. MATRIX		
PLO #1: Students will display knowledge about the philosophy, theory, processes, and current trends of the three principle sub-fields of law enforcement, courts, and corrections		A, B	A, B, A, B			A, B	A
PLO #2: Students will display knowledge of the major theoretical perspectives related to the etiology of juvenile and adult crime				A, B, C			
PLO #3: Students will display knowledge of the methods of measuring crime and the historical and current trends of crime in the United States.			A, B	A			
PLO #4: Students will be able to apply criminological theory to the development of research and social/crime policy.				A			
PLO #5: Students will be able to explain the research process				A			
PLO #6: Students will develop the research skills necessary to look at an issue and analyze it as to causes, process, and consequences, and then apply appropriate knowledge for constructing a positive solution.							

CAS Curriculum Program Learning Outcomes Matrix

Program Learning Outcomes (PLO)	Sample Course: PSYC 100	Course: S/CJ 220-- Correctio ns	Course: CJ 110-- Intro. To Criminal Justice	Course: S/CJ 213-- Criminolo gy	Course: Soc 110-- Introducti no to Sociology	Course: S/CJ-- 219Ameri can Policing	Course: S/CJ 218-- American Court System
PLO #7: Explain how to use statistics to find patterns and to evaluate criminal justice/social programs and policies				A		A, B	A, B
PLO # 8: Evaluate the research writing of others							
PLO #9: Students will develop the skills necessary to be competent in the use of modern technology in educational and professional settings.		F	C	C		B	B
PLO #10: Students will develop skills that will enable students to evaluate the social justice implications related to the criminal justice system.		B	A, A	A		A	A
PLO #11: Students will effectively express the ability to write using standard English and the writing skills appropriate to the field of social sciences through the completion of written assignments.		A, B				A, B	A, B
PLO #12: Students will effectively express in a verbal manner one's ideas in a variety of formal and informal settings through the completion of in-class oral reports.							
C (oral) C (oral) C (oral)							

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

F= On-line quizzes/on-line lectures/discussion board use

CAS Curriculum Program Learning Outcomes Matrix

[illegible]

CAS Curriculum Program Learning Outcomes Matrix

Course: S/CJ 220-- Correctio ns	Course: S/CJ 210-- Law and Society	Course: Soc 224-- Race and Ethnic Relations	Course: S/CJ 212 Research Methods	Course: S/CJ 215-- Statistics for the SS
			A,B	A,B
			A,B	
F			A,B	A,B
B	A,C	A		
A,B	A	A,B	A,B	A,B

C (oral) C (oral) C (oral)

CAS Curriculum Program Learning Outcomes Matrix

Program: Sociology

Date Completed: May 15th, 2014

Program Learning Outcomes (PLO)	Sample Course: PSYC 100	Course: Soc 110-- Introducti no to Sociology	Course: S/CJ 212 Research Methods	Course: S/CJ 215-- Statistics for the SS	Course: 218 Sociologic al Theory
Sample PLO: Students should be able to recongize and articulate the foundational assumptions, central ideas and dominant criticisms of the psychoanalytic, Gestalt, behaviorist, humanistic, and cognitive approaches to psychology	A, B	A, B, C A, A, A			
PLO #1: Explain the role of culture and subcultures in society.		A, B, C A, A, A			A, B
PLO #2: Students will recognize micro and macro social processes, its effect on people, and how it relates to social change.		A, B, C, A, A, A			A, B
PLO #3: Students will identify and understand the process of social stratification.		A, B, A, A, A			A, B
PLO #4: Students will be able to explain the historical and social influences on classical and contemporary sociological theory.		A, B, A, A, A			A, B, C
PLO #5: Students will be able to demonstrate a critical understanding of major classical and contemporary theories.		A, A, B, A, A, A			A, B, C
PLO #6: Students will be able to apply sociological theory to the development and evaluation of social research and policy.		A			A, B, C
PLO #7: Students will be able to explain the research process			A, B	A, B	

CAS Curriculum Program Learning Outcomes Matrix

PLO #8: Students will develop the research skills necessary to look at an issue and analyze it as to causes, process, and consequences, and then apply appropriate knowledge for constructing a positive solution.			A, B	A, B	
PLO #9: Explain how to use statistics to find patterns and to evaluate criminal justice/social programs and policies			A, B	A, B	
PLO # 10: Evaluate the research writing of others			A, B		
PLO #11: Students will develop the skills necessary to be competent in the use of modern technology in educational and professional settings.		C	A, B	A, B	

PLO #13: Students will effectively express the ability to write using standard English and the writing skills appropriate to the field of social sciences through the completion of written assignments.

PLO #14: Students will effectively express in a verbal manner one's ideas in a variety of formal and informal settings through the completion of in-class oral reports.

C, C, C

C

Method Key:

A=Quizzes/Exams

B=Papers

C=Presentations

D=Portfolios

E=Other Please Define

CAS Curriculum Program Learning Outcomes Matrix

[illegible]

CAS Curriculum Program Learning Outcomes Matrix

Program: Hispanic Studies										
Date Completed: April 15, 2014										
Program Learning Outcomes (PLO)	←	COURSES	→	Span 101	Span 102	Span 211	Span 212	Span 311	Span 312	Span 313
PLO #1: : Students will demonstrate proficiency in a language other than English in the four skills of Speaking, Listening comprehension, reading, and writing				A,B,C,D	A,B,C,D	A,B,C	A,B,C	A,B,C	A,C	A,C,D,F
PLO #2: : Students will demonstrate proficiency in a literature other than literature written in English.								A*		A*
PLO #3: Students will demonstrate proficiency in a culture other than the cultures of societies where English is the primary language				A,D	A,D	A	A	A,B,C		A,C,D,F
Method Key:				A */C* Indicates courses in which Literature per se is not the main focus, but w						
A=Quizzes/Exams				Other upper division courses that meet all three PLOs include 413, 421, 422, 43						
B=Oral exams/Interviews				Span 439 meets PLO #1						
C=Papers/essays/Study questions										
D=Presentations										
E=Service Learning										
F=Course level portfolio										
G= Senior portfolio										

CAS Curriculum Program Learning Outcomes Matrix

[illegible]

CAS Curriculum Program Learning Outcomes Matrix

Program: French and Francophone Studies

Date Completed: April 14, 2014

Program Learning Outcomes (PLO)		Fren 101	Fren 102	Fren 211	Fren 212	Fren 311	Fren 312
PLO #1: Students will demonstrate proficiency in a language other than English in the four skills of Speaking, Listening, comprehension, reading, and writing		A, B, C, D	A, B, C, D	A, B, C	A, B, C	A, C, D	A, C, D
PLO #2: Students will demonstrate proficiency in a literature other than literature written in English.				A*	A*	A*	A*
PLO #3: Students will demonstrate proficiency in a culture other than the cultures of societies where English is the primary language.		A, D	A, D	A	A	A, B, C	
Method Key:							
A=Quizzes/Exams							
B=Oral exams/Interviews							
C=Papers/essays/Study questions							
D=Presentations							
E=Service Learning							
F=Course level portfolio							
G= Senior portfolio							

A* indicates courses in which literature per se is not the main focus

** Other upper division courses that meet all three PLOs include 4

Upper division electives are offered on a rotation basis.

[illegible]

Upper divisio			
---------------	--	--	--

Upper divisio

[illegible]

CAS Curriculum Program Learning Outcomes Matrix

Program: Italian and Italian Studies
Date Completed: April 15, 2014

Program Learning Outcomes (PLO)		Ital 101	Ital 102	Ital 211	Ital 212	Ital 311	Ital 312
PLO #1: Students will demonstrate proficiency in a language other than English in the four skills of Speaking, Listening, comprehension, reading, and writing.		A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D
	PLO #2: Students will demonstrate proficiency in a literature other than literature written in English.			A*	A*	B*,C*	B*,C*
PLO #3: Students will demonstrate proficiency in a culture other than the cultures of societies where English is the primary language.		A	A	A	A	B,C	B,C
Method Key:							
A=Quizzes/Exams							
B=Oral exams/Interviews/Guided discussion							
C=Papers/essays/study questions							
D=Presentations							
E=Service Learning							
F=Course level portfolio							
G= Senior portfolio							

* indicates courses in which Literature per se is not the main focus
Upper division electives are offered on a rotating basis.

[illegible][illegible]