Wayne State University

Academic Programs

Administration and Organizational Studies (AOS)

Bachelor of Arts in Education in Instructional Technology

1: Demonstrate understanding
Providing Department: Bachelor of Arts in Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Demonstrate an ability to apply selected learning and design theories of instructional and performance improvement projects using digital technologies.

2: Practitioner
Providing Department: Bachelor of Arts in Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Successfully analyze and implement existing designs and best practices in IT.

Bachelor of Science in Education in Instructional Technology

1: Demonstrate understanding
Providing Department: Bachelor of Science in Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Demonstrate an ability to apply selected learning and design theories of instructional and performance improvement projects using digital technologies.

2: Practitioner
Providing Department: Bachelor of Science in Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Successfully analyze and implement existing designs and best practices in IT.

Doctor of Education in Education Leadership and Policy Studies

1: Provide knowledge base
Providing Department: Doctor of Education in Education Leadership and Policy Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To provide a knowledge base to assist practitioners in the management of systemic change in school buildings and systems.

2: Examination of Research and Practice
Providing Department: Doctor of Education in Education Leadership and Policy Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Examination of research and practice relating to leadership and policy

Doctor of Education in Instructional Technology

1: Demonstrate understanding
Providing Department: Doctor of Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Demonstrate an ability to apply selected learning and design theories and research to the design and development of instructional and performance improvement projects using digital technologies.

2. Analyze and critique research
Providing Department: Doctor of Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
2. Successfully analyze and critique existing research and design and implement valid, reliable quantitative and/or qualitative research.

Doctor of Philosophy in Education Leadership and Policy Studies

1: Provide knowledge base
Providing Department: Doctor of Philosophy in Education Leadership and Policy Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To provide a knowledge base to assist practitioners in the management of systemic change in school buildings and systems.

2: Research and Theory
Providing Department: Doctor of Philosophy in Education Leadership and Policy Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Examination of research and theory relating to leadership and policy.

Doctor of Philosophy in Instructional Technology

1: Demonstrate understanding
Providing Department: Doctor of Philosophy in Instructional Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Demonstrate a comprehensive understanding of the theories, policies and practices relevant for their field of study in IT.

2: Analyze and critique research
Providing Department: Doctor of Philosophy in Instructional Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
2. Successfully analyze and critique existing research and design and implement valid, reliable quantitative and/or qualitative research.

Education Specialist Certificate in General Administration and Supervision

1: Develop school improvement plan
Providing Department: Education Specialist Certificate in General Administration and Supervision
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student will develop a School Improvement Plan that will demonstrate a knowledge base in the management of systemic change in school buildings and systems.

2: Analysis of legal case/policy
Providing Department: Education Specialist Certificate in General Administration and Supervision
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student will complete an analysis of a legal case/legal policy implementation involving an educational issue.
Education Specialist Certificate in Instructional Technology

1: Practitioner
Providing Department: Education Specialist Certificate in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Demonstrate an ability to apply selected learning and design theories of instructional and performance improvement projects using digital technologies.

Graduate Certificate in College and University Teaching

1: Create valid statements of learning outcomes
Providing Department: Graduate Certificate in College and University Teaching
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Master of Education in Educational Leadership

1: Develop school improvement plan
Providing Department: Master of Education in Educational Leadership
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will develop a School Improvement Plan that will demonstrate a knowledge base in the management of systemic change in school buildings and systems.

2: Analysis of legal case
Providing Department: Master of Education in Educational Leadership
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will complete an analysis of a legal case/legal policy implementation involving an educational issue.

Master of Education in Instructional Technology

1: Demonstrate understanding
Providing Department: Master of Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate an ability to apply selected learning and design theories of instructional and performance improvement projects using digital technologies

2: Practitioner
Providing Department: Master of Education in Instructional Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Successfully analyze and implement existing designs and best practices in IT.

Kinesiology, Health and Sports Studies (KHS)

Exercise and Sport Science

Bachelor of Science in Education in Kinesiology

1: PE-PAL Program Learning Outcome - Foundational Knowledge of Kinesiology
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop a knowledge base in kinesiology so as to be able to apply biophysical concepts, motor development theory and principles and motor learning and psychological/behavioral theory to the development of skillful movement, physical activity and fitness.
1: Program learning outcome - Exercise Physiology
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Students will be able to incorporate the core Exercise and Sport Science concepts in exercise physiology while integrating knowledge of the basic human functions at the biochemical, cellular, and broad anatomical levels.

2: PE-PAL Program Learning Outcome - Disciplinary Content Knowledge
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop a knowledge base of disciplinary content including motor skills, performance concepts and strategies as well as historical, philosophical and sociological perspectives impacting human performance.

3: Program learning outcome - Physical Activity and Exercise Psych
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to qualify the psychological and sociological status of individuals and environments and understand the relationships between physical activity and exercise and quality of life, self-esteem, mood, mood alteration and self-awareness.

3: PE-PAL Program Learning Outcome - Pedagogical Knowledge
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop pedagogical knowledge and skill specific to assessment practices, instructional methods and teaching strategies, and behavior management techniques appropriate for K-12 physical education and community-based physical activity programming.

3: Program learning outcome - Biomechanics
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to provide precise analyses and understanding of human physical structure and function related to movements through applied kinematic and kinetic concepts to human motion analysis.

4: PE-PAL Program Learning Outcome - Pedagogical Content Knowledge
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop pedagogical content knowledge and skill including how to use media and technology to enhance instruction and motivation, plan and implement effective programming, and differentiate instruction to meet a diverse population of K-12 physical education and community-based physical activity program learners.

4: Program learning outcome - Motor Learning and Control
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to understand and analyze essential information on the study of motor skill acquisition and motor control with applications to physical activity that focus on the cognitive processes and neural mechanisms.

5: PE-PAL Program Learning Outcome - Professional Development
Providing Department: Bachelor of Science in Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will develop as professionals and demonstrate a commitment to on-going professional development including understanding their role in research activities that advance the field.

Doctor of Philosophy in Kinesiology

1: PE-PAL Program Learning Outcome - Development as Physical Education and Physical Activity Leaders
Providing Department: Doctor of Philosophy in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will develop as leaders in physical education and physical activity with the knowledge and skill as scholars, researchers, and teacher educators necessary to advance the field.

1: Program learning Outcome - Doctoral Sem. in Kinesiology, Health, and Sport Studies
Providing Department: Doctor of Philosophy in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to compile and analyze essential research information to create further inquiries and explanations for the progression of the exercise and sport sciences.

Master of Education in Kinesiology

1: PE-PAL Program Learning Outcome - Disciplinary Content Knowledge
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will develop an advanced knowledge base of disciplinary content including motor skills, performance concepts and strategies as well as historical, philosophical and sociological perspectives impacting human performance.

1: Program learning Outcome - Motor Learning and Control
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to examine current research in motor control and learning and other physiological mechanisms to motor behavior which affect the acquisition of motor skill: perception, motivation, psychology of motor behavior.

2: PE-PAL Program Learning Outcome - Pedagogical Knowledge
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will develop advanced pedagogical knowledge and skill specific to assessment practices, instructional methods and teaching strategies, and behavior management techniques appropriate for K-12 physical education and community-based physical activity programming.

2: Program learning outcome - Biomechanical Analysis of Motor Activity
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate an understanding of kinematic and kinetic principles for human movement, define and evaluate critically the biomechanical principles of sports movements, analyze human locomotion and various movements, and compare current literature in sport and movement biomechanics.

3: PE-PAL Program Learning Outcome - Pedagogical Content Knowledge
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will develop advanced pedagogical content knowledge and skill including how to use media and technology to enhance instruction and motivation, plan and implement effective programming, and differentiate instruction to meet a diverse population of K-12 physical education and community-based physical activity program learners.

3: Program learning outcome - Internship placement
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The students will complete a culminating learning experience that will allow them to apply, expand and refine the knowledge, dispositions, and skills they acquired during the pursuit of their master's degree.

4: PE-PAL Program Learning Outcome - Professional Development
Providing Department: Master of Education in Kinesiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop as professionals and demonstrate a commitment to on-going professional development including understanding their role in research activities that advance the field.

Health Education
Bachelor of Science in Education in Health Education

1: Learning Outcome 1
Providing Department: Bachelor of Science in Education in Health Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Provide population specific health education

2: Learning Outcome 2
Providing Department: Bachelor of Science in Education in Health Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Effectively plan health education programs and interventions

Master of Education in Health Education

1: Learning Outcome 1
Providing Department: Master of Education in Health Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Provide population specific health education

2: Learning Outcome 2
Providing Department: Master of Education in Health Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Effectively plan health education programs and interventions

Sport Administration
Master of Arts in Sports Administration

1: Learning Outcome #1: Administration Skill Mastery
Providing Department: Master of Arts in Sports Administration
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will gain and be able to demonstrate a mastery of skills to effectively administer programs within amateur and professional sport settings.

2: Learning Outcome #2: Professional Ethics
Providing Department: Master of Arts in Sports Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will understand how to identify and address ethical and social justice issues in sport administration and make decisions accordingly.

3: Learning Outcome #3: Using Technology & Communication
Providing Department: Master of Arts in Sports Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will garner competencies in using technology to communicate, administer programs, and advance themselves professionally.

4: Learning Outcome #4: Professional Readiness
Providing Department: Master of Arts in Sports Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate their professional readiness and the practical application of the sports administration skills they have acquired throughout the MA program.

Teacher Education (TED)

Bachelor of Arts in Education in Elementary Education

1: BA in Elementary Education Learning Outcomes
Providing Department: Bachelor of Arts in Education in Elementary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.

Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.

Bachelor of Arts in Education in Secondary Education

1: BA in Secondary Education Learning Outcomes
Providing Department: Bachelor of Arts in Education in Secondary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
•Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.

•Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

•Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement and how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.
Bachelor of Science in Education in Elementary Education

1: Bachelor of Science in Education in Elementary Education Learning Outcomes
Providing Department: Bachelor of Science in Education in Elementary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

• Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.

• Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

• Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.

Bachelor of Science in Education in Secondary Education

1: Bachelor of Science in Education in Secondary Education Learning Outcomes
Providing Department: Bachelor of Science in Education in Secondary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

• Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.

• Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

• Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.

Bridge Graduate Certificate in Bilingual Education

1: Bridge Certificate in Bilingual/Bicultural Education Learning Outcome
Providing Department: Bridge Graduate Certificate in Bilingual Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate an understanding of the language theories and instructional strategies of bilingual education, including the ability to critically examine the theory and research and connect it to the curricular needs of specific programs and communities.

• LED 6520 Teaching English as Second Language/FL 1

LO2: LO2
Providing Department: Bridge Graduate Certificate in Bilingual Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2. The student will utilize knowledge of second language acquisition theories in lesson planning.

Bridge Graduate Certificate in Career and Technical Education

1: Learning Outcomes: Discontinued Bridge Program
Providing Department: Bridge Graduate Certificate in Career and Technical Education
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will have exhibited Bridge Certificate competence when they:

1. Articulate their commitment to the philosophical foundations of career and technical education as it relates to developing a highly educated workforce. (Evidence: Grades in CTE 6999).
2. Develop professional involvement and leadership in Career and technical education through professional organization agencies and other processes, which operate on a local, regional, state, national, and international basis. (Evidence: Grades in CTE 8998).

2.

3. Demonstrate an understanding of the CTE specific educational theories and instructional strategies (Evidence: Grades in CTE 6010).

4. Demonstrate the ability to critically examine educational research in CTE and connect it to practice (Evidence: CTE 7820).

5. Provide research foundations, which enable them to apply the findings of contemporary research to teaching and learning, to foster the spirit of inquiry, and the ability to develop new knowledge for the improvement of instruction. (Evidence: Grades in TED 7000, Grades in ED 7999 Terminal Master’s Project or other evidence-based projects).

6. Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in Career and Technical Education (Evidence: Grades in ED 7999 Terminal Master’s Project or other evidence-based projects).

Bridge Graduate Certificate in English as a Second Language

1: Bridge Certificate in English as a Second Language Learning Outcomes
Providing Department: Bridge Graduate Certificate in English as a Second Language
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
a. Demonstrate an understanding of the language theories and instructional strategies of bilingual education, including the ability to critically examine the theory and research and connect it to the curricular needs of specific programs and communities.

   LED 6520 Teaching English as Second Language/FL

LO2: LO2
Providing Department: Bridge Graduate Certificate in English as a Second Language
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2: The student will utilize knowledge of second language acquisition theories in lesson planning.

Doctor of Education in Curriculum and Instruction

LO1: Application of Curriculum Theory
Providing Department: Doctor of Education in Curriculum and Instruction
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to synthesize curriculum theory and apply it to current issues in the field.

LO2: Research methodology
Providing Department: Doctor of Education in Curriculum and Instruction
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate ability to critically evaluate, apply, and conduct empirical research in education.

Doctor of Education in Reading, Language and Literature

1: Doctor of Education in Reading, Language and Literature Learning Outcome
Providing Department: Doctor of Education in Reading, Language and Literature
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

a. Demonstrate a comprehensive understanding of the theories, policies and practices relevant for their field of study (Evidence: Course Grades, Comprehensive Examination, Oral Dissertation Defense);

b. Demonstrate an understanding of the implications of research and theory in literacy for literacy instruction and assessment in an urban environment. (Evidence: Comprehensive Examination, Grades in courses)

c. Demonstrate the ability to analyze and critique existing research, and design and implement valid, reliable quantitative and/or qualitative research that expands understanding of literacy processes and/or improves literacy curriculum and instruction. (Evidence: Grade in RLL 8700, Dissertation, Oral Dissertation Defense)

Doctor of Education in Special Education

1: LO1
Providing Department: Doctor of Education in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate a comprehensive understanding of the theories, policies and practices relevant for their field of study (Evidence: Course Grades, Comprehensive Examination, Oral Dissertation Defense);

2: LO2
Providing Department: Doctor of Education in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Successfully implement an applied research program that includes developing the ability to analyze and critique existing research, and design and implement valid, reliable quantitative and/or qualitative research. (Evidence: Grades [in research-based courses], Dissertation, Oral Dissertation Defense)

Doctor of Philosophy in Curriculum and Instruction

LO1: Analysis of Theory
Providing Department: Doctor of Philosophy in Curriculum and Instruction
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students demonstrate the ability to synthesize and critique influential theory related to curriculum development and design.

LO2: Research Methodology
Providing Department: Doctor of Philosophy in Curriculum and Instruction
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate the ability to critically evaluate, apply, and conduct empirical research in education.

Doctor of Philosophy in Special Education

1: Learning Outcome 1
Providing Department: Doctor of Philosophy in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate a comprehensive understanding of the theories, policies and practices relevant for their field of study (Evidence: Course Grades, Comprehensive Examination, Oral Dissertation Defense);

2: Learning Outcome 2
Providing Department: Doctor of Philosophy in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Successfully implement an applied research program that includes developing the ability to analyze and critique existing research, and design and implement valid, reliable quantitative and/or qualitative research. (Evidence: Grades [in research-based courses], Dissertation, Oral Dissertation Defense)
Education Specialist Certificate in Curriculum and Instruction

LO1: Students will develop an understanding of issues in urban education.
Providing Department: Education Specialist Certificate in Curriculum and Instruction
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will understand the role of culture in student achievement and understand the basis for individual, gender, and ethnic or racial differences in achievement.

LO2: Develop critical thinking skills
Providing Department: Education Specialist Certificate in Curriculum and Instruction
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will synthesize ideas and perspectives across multiple curricular texts.

Education Specialist Certificate in Reading

1: Outcome 1 and General Statement
Providing Department: Education Specialist Certificate in Reading
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
There is no single set educational standards for this certificate. For those students whose goal is attainment of the K-12 Reading Specialist Endorsement, the Michigan Department of Education standards for the K-12 Reading Specialist Endorsement (BR) and the International Reading Association Standards for Reading Professionals apply. For those whose goal is to enter the Ed.D. in RLL program, the IRA Standards for Reading Professionals and the NCTE Standards for the English Language Arts are used. Therefore, outcomes for students in this program are not the same depending on their individual goals. However, all students take two courses at the doctoral level; so general outcomes for those courses are used here.

Outcome 1: Summarize, critique and compare/contrast various theories of literacy in formal written formats.

2: Outcome 2
Providing Department: Education Specialist Certificate in Reading
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Summarize, critique, and compare/contrast the research that supports various theories of literacy in formal written formats.

3: Outcome 3
Providing Department: Education Specialist Certificate in Reading
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply various theories of literacy in written formats.

Master of Arts in Teaching in Elementary Education

1: MAT Elementary Education Learning Outcome
Providing Department: Master of Arts in Teaching in Elementary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
• Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
• Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.
Master of Arts in Teaching in Secondary Education

1: MAT in Secondary Education Learning Outcome
Providing Department: Master of Arts in Teaching in Secondary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

- Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.
- Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.
- Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.

Master of Education in Art Education

1: MED in Art Education (Visual Arts) Learning Outcome
Providing Department: Master of Education in Art Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

- Demonstrate an understanding of the Art Education specific educational theories and instructional strategies (Evidence: Grades in AED 5890 and AED 7500)
- Demonstrate the ability to critically examine educational research in Art Education and connect it to practice (Evidence: Grades in TED 7000).
- Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in Art Education (Evidence: Grades in AED 5890, TED 7000, and ED 7999).

2: MED in Art Education-Art Therapy Variant Learning Outcomes
Providing Department: Master of Education in Art Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

- Demonstrate an understanding of the Art Therapy specific educational theories and instructional strategies (Evidence: Grades in AED 7380).
- Demonstrate the ability to critically examine educational research in Art Therapy and connect it to practice (Evidence: AED 7330; AED 7340).
- Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in Art Therapy and connect it to practice (Evidence: Grades in TED 7000 Terminal Master’s Project or other evidence-based projects).

Master of Education in Bilingual-Bicultural Education

1: MED in Bilingual/Bicultural Education/English as a Second Language Learning Outcome
Providing Department: Master of Education in Bilingual-Bicultural Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

- Demonstrate an understanding of the language theories and instructional strategies of bilingual education, including the ability to critically examine the theory and research and connect it to the curricular needs of specific programs and communities.
- LED 6520 Teaching English as Second Language/FL 1
Demonstrate the ability to critically examine educational research and connect it to practice

- TED 7000 – Introductory Master’s Seminar

Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in specific language programs.

- ED 79999

**LO2: LO2**

**Providing Department:** Master of Education in Bilingual-Bicultural Education  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**

LO2. The student will utilize knowledge of second language acquisition theories in lesson planning.

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**Master of Education in Career and Technical Education**

**1: MED CTE Learning Outcome**

**Providing Department:** Master of Education in Career and Technical Education  
**Start:** 9/1/2014  
**End:** 8/31/2016

**Learning Outcome Description**

Critically examine educational research in Career and Technical education.

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**Master of Education in Early Childhood Education**

**1: MED in Early Childhood Education Learning Outcome**

**Providing Department:** Master of Education in Early Childhood Education  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**

Demonstrate an understanding of specific theories on child development, teaching, and learning; and, developmentally appropriate practice (DAP) and research-based, recommended practices of education for young children and their families (Evidence: Grade in ELE 6020).

Demonstrate the ability to critically examine educational research in early childhood general and special education and connect it to practice (Evidence: Grade in TED 7000).

Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in early childhood general and special education (Evidence: Grade in ED 7999 Terminal Master’s Essay or Project).
Master of Education in Elementary Education

1: MED in Elementary Education Learning Outcome
Providing Department: Master of Education in Elementary Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

• Learning Outcome #1: Learner Development: The teacher certification candidates will be able to describe, in a teaching and learning statement, research-driven based theories of how learners grow and develop, recognizing that patterns of learning and development vary individually within and across the cognitive, linguistic, social, emotional, and physical areas, and designs and implements developmentally appropriate and challenging learning experiences.

• Learning Outcome #2: Learning Differences: The teacher certification candidates will be able to describe in a teaching and learning statement how they utilize knowledge and understanding of individual differences and diverse cultures and communities to ensure inclusive learning environments that enable each learner to meet high standards.

• Learning Outcome #3: Content Knowledge: The teacher certification candidates will be able to communicate in a teaching and learning statement and apply in a unit plan how they utilize the understanding central concepts, tools of inquiry, and structures of the discipline(s) he or she teaches and creates learning experiences that make these aspects of the discipline accessible and meaningful for learners to assure mastery of the content.

Master of Education in English Education

1: MED in English Learning Outcomes
Providing Department: Master of Education in English Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Demonstrate an understanding of the specific educational theories and instructional strategies related to English Education (Evidence: Grades in EED 6330).

Demonstrate the ability to critically examine educational research in English Language Education and connect it to practice (Evidence: Grades in RLL 7500).

Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in English Education (Evidence: Grades in RLL 7820, Terminal Master’s Project or other evidence-based projects).

Master of Education in Foreign Language Education
1: MED of Education in Language Education Learning Outcomes
Providing Department: Master of Education in Foreign Language Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Demonstrate an understanding of the language theories and instructional strategies of bilingual education, including the ability to critically examine the theory and research and connect it to the curricular needs of specific programs and communities.

LED 6520 Teaching English as Second Language/FL 1

Demonstrate the ability to critically examine educational research and connect it to practice

TED 7000 – Introductory Master’s Seminar

Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in specific language programs.

ED 7999

2: LO2: LO2
Providing Department: Master of Education in Foreign Language Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2. The student will utilize knowledge of second language acquisition theories in lesson planning.

Master of Education in Mathematics Education: Secondary

1: MED in Mathematics Education Learning Outcome 1
Providing Department: Master of Education in Mathematics Education: Secondary
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Critically examine educational research in mathematics education.

2: MED in Mathematics Education Learning Outcome 2
Providing Department: Master of Education in Mathematics Education: Secondary
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Connect mathematics education research to practice.

Master of Education in Reading

1: MED in Reading Learning Outcomes
Providing Department: Master of Education in Reading
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate an understanding of the Reading specific educational theories and instructional strategies (Evidence: Grades in RLL 7100, 7200, 7300).
Demonstrate the ability to critically examine educational research in Reading and connect it to practice (Evidence: RLL 7500).
Demonstrate the ability to systematically collect, reflect and act upon evidence to improve educational practices in Reading (Evidence: Grades in RLL 7400 or other evidence-based projects).

Master of Education in Science Education
1: MED in Science Education Learning Outcome
Providing Department: Master of Education in Science Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate a comprehensive understanding of the theories and educational practices related to science education. (Evidence: Course grades in SCE 6040 and SCE 7010).

Demonstrate the ability to critique existing research and research methodologies in science education and how they apply to teaching practice. (Evidence: Course grades in SCE 6040 and SCE 7000).

Demonstrate the ability to apply educational research methodology by systematically collecting, analyzing and reaching conclusions to examine and improve teaching practice. (Evidence: Course grades in ED 7999).

Master of Education in Social Studies Education: Secondary

1: Master's of Education in Social Studies Education - Secondary
Providing Department: Master of Education in Social Studies Education: Secondary
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1: Candidates will possess the knowledge, capabilities, and dispositions to organize and provide instruction at the appropriate school level for the study of culture and cultural diversity.

LO2: Social studies teachers should possess the knowledge, capabilities, and dispositions to organize and provide instruction at the appropriate school level for the study of Time, Continuity, and Change.

LO3: Social studies teachers should possess the knowledge, capabilities, and dispositions to organize and provide instruction at the appropriate school level for the study of Individual Development and Identity.

Master of Education in Special Education

1: MED in Special Education Learning Outcome 1
Providing Department: Master of Education in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1: Demonstrate knowledge and understanding of specific educational theories and instructional strategies in special education.

2: MED in Special Education Learning Outcome 2
Providing Department: Master of Education in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate the ability to examine critically educational research in special education and connect it to practice.

3: MED in Special Education Learning Outcome 3
Providing Department: Master of Education in Special Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate the ability to collect systematically, reflect, and act upon evidence to improve educational practices in special education.

Post-Bachelor Teacher Certification Program

1: Post Bachelor Teacher Certification Learning Outcome
Providing Department: Post-Bachelor Teacher Certification Program
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Our teacher certification candidates understand Content and Pedagogical Knowledge by developing a deep understanding of the critical concepts and principles of their discipline and are able to use discipline-specific practices.

Through Clinical Practice our candidates develop the knowledge, skills and professional dispositions necessary to demonstrate positive impact on all P-12 students’ learning and development.

Theoretical and Behavioral Foundations (TBF)

Doctor of Education in Counseling

1.: Learning Outcome
Providing Department: Doctor of Education in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Students will be able to describe theories pertaining to the principles and practice of counseling, group work, consultation and assessment.

2.: Learning Outcome
Providing Department: Doctor of Education in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Student will be able to discuss and demonstrate program development, career development, consultation and research.

3.: Learning Outcome
Providing Department: Doctor of Education in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
3. Student will be able to design and implement a research project using qualitative or quantitative research methods.

Doctor of Education in Educational Evaluation and Research

All: Learning Outcomes
Providing Department: Doctor of Education in Educational Evaluation and Research
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Educational Evaluation and Research program offers concentrated programs for building careers and leadership positions in educational statistics, research, measurement, and evaluation. As of 2015, the doctoral programs (Ph. D. and Ed. D.) have graduated over 150 students, who serve methodology roles at the highest levels in education, psychology, government, hospitals, business, and industry. Many of these graduates are employed as university faculty around the United States.

EER majors are required to master statistics packages and programming platforms that are essential for the coursework specific to their Plan of Work. Currently, this may include SPSS, Minitab, StatXact, LogXact, AMOS, LISREL, Excel, Fortran, and R in the quantitative track; NVivo in the qualitative track; and Iteman, ASCAL, Multilog, and AMOS in the Measurement track.

Quantitative students are required to demonstrate mastery in the ethical use of descriptive statistics (frequency distributions; charts; and both ordinary and robust measures of central tendency, variability, and bivariate analysis); and parametric, nonparametric, robust, and exact inferential univariate statistics (one sample, two independent and dependent samples, k-samples, factorial, and covariance layouts) and univariate modeling (ordinary least squares & logistic modeling), multivariate (two independent and dependent samples, k-samples, factorial, covariance, canonical layouts), structural equation modeling, and quantitative program evaluation models. Monte Carlo methods are offered as an option for student wishing to pursue a dissertation requiring its abilities.

Quantitative students are required to demonstrate mastery in epistemological, ontological, and methodological theory as it applies to the ethical application of ethnography, grounded theory, videography, poetic, phenomenology, narrative, action, collaboration, and arts-based approaches through fieldwork, long non-therapeutic interviews, focus groups, observations, and documentary analysis. Post-positivist and post-structural ethnographic naturalistic-interpretivist skills are developed via semantic domain analysis, taxonomic analysis, componential, and slice-in-time analysis. Data analysis skills (memorizing, transcription, pre/first-cycle/second-cycle coding, pattern coding, data/checklist/ matrix/network/thematic displays, explanation prediction within-case vs cross case displays) for the purposes of describing, ordering, explaining and predicting, and negative case analysis. The student will investigate and formally adopt of one the major traditions of qualitative research, although display master of all major traditions.

Measurement students are required to demonstrate mastery in classical measurement theory (strong statistics vs. weak measurement controversy, instrument reliability measures of internal consistency, test-retest, parallel forms, attenuation; content, predictive, concurrent, and construct validity of the usage of tests) and modern measurement theory (item response theory/latent trait methods, differential item functioning).

Doctor of Philosophy in Counseling
1. Learning Outcome
Providing Department: Doctor of Philosophy in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Students will be able to describe theories and practice of individual counseling, group work and consultation.

2. Learning Outcome
Providing Department: Doctor of Philosophy in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Student will be able to demonstrate use of theories of supervision.

3. Learning Outcome
Providing Department: Doctor of Philosophy in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
3. Student will be able to design and implement a research project using quantitative or qualitative design procedures.

Doctor of Philosophy in Educational Evaluation and Research

All Learning Outcomes
Providing Department: Doctor of Philosophy in Educational Evaluation and Research
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Educational Evaluation and Research program offers concentrated programs for building careers and leadership positions in educational statistics, research, measurement, and evaluation. As of 2015, the doctoral programs (Ph. D. and Ed. D.) have graduated over 150 students, who serve methodology roles at the highest levels in education, psychology, government, hospitals, business, and industry. Many of these graduates are employed as university faculty around the United States.

EER majors are required to master statistics packages and programming platforms that are essential for the coursework specific to their Plan of Work. Currently, this may include SPSS, Minitab, StatXact, LogXact, AMOS, LISREL, Excel, Fortran, and R in the quantitative track; NVivo in the qualitative track; and Iteman, ASCAL, Multilog, and AMOS in the Measurement track.

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Doctor of Philosophy in Educational Psychology

1. EDP Doctoral Learning Outcome
Providing Department: Doctor of Philosophy in Educational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate understanding of theories and scientific literature in the areas of psychology, especially different aspects of human development, motivation, learning processes, therapeutic approaches, and human diversity.
2: EDP Doctoral Learning Outcome 2
Providing Department: Doctor of Philosophy in Educational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate knowledge and skills in the areas of research design, methodology, and statistical analyses.

3: EDP Doctoral Learning Outcome 3
Providing Department: Doctor of Philosophy in Educational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Student will apply their knowledge and skills into their practice and/or research.

Education Specialist Certificate in Counseling

1.: Learning Outcome
Providing Department: Education Specialist Certificate in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Students will demonstrate supervision skills with counselor trainees in a laboratory settings. Student Supervisors will use at least three supervision techniques with each counselor trainee.

2.: Learning Outcome
Providing Department: Education Specialist Certificate in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Students will become proficient in supervising counselor trainees in locating, evaluating and using career information systems. Counselor trainees will demonstrating mastery of at least two career information systems.

Graduate Certificate in Advanced Graduate Studies in School Psychology

1: Grad Cert SP Learning Outcome 1: Knowledge
Providing Department: Graduate Certificate in Advanced Graduate Studies in School Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will display sufficient knowledge of School Psychology practice within all ten domains as outlined by our national association--The National Association of School Psychologists.

2: Grad Cert SP Learning Outcome 2: Applied Skills
Providing Department: Graduate Certificate in Advanced Graduate Studies in School Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will display sufficient applied skills in the field of School Psychology practice, including assessment, consultation, and intervention.

3: Grad Cert SP Learning Outcome 3: Professional Dispositions
Providing Department: Graduate Certificate in Advanced Graduate Studies in School Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will display sufficient professional dispositions necessary for successful School Psychology practice as outlined by our national association--The National Association of School Psychologists.

Master of Arts in Counseling
2. Learning Outcome
Providing Department: Master of Arts in Counseling
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
2. Students will be able to provide a conceptual framework of assessments in clinical mental health and school counseling based upon a critical think, evidence based approach toward the assessment of individuals with emotional, cognitive, learning, and physical issues.

3. Learning Outcome
Providing Department: Master of Arts in Counseling
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
3. Students will be able to demonstrate knowledge and/or skills in the theoretical, philosophical, and evidenced based research assumptions of counseling processes and techniques in clinical mental health counseling and school counseling.

1. Learning Outcome
Providing Department: Master of Arts in Counseling
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Students will understand legal, ethical and professional issues that impact clinical mental health and school counseling practice.

Master of Arts in Counseling Psychology
1.0: MACP Outcome 1: Knowledge, comprehension of Development, Individual Differences, Family Systems Theory
Providing Department: Master of Arts in Counseling Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will engage in completing coursework related to ethics, human development, individual differences, and general systems theories. Students will be able to understand and apply theory and empirical studies to understanding human behavior among individuals, children, couples, and families.

2.0: MACP Outcome 2: Proficiency in Psychological Assessments
Providing Department: Master of Arts in Counseling Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be proficient in the administration and interpretation of psychological and cognitive assessments for the purposes of assessing cognitive functioning, vocational development, diagnostic estimates, and psychological functioning for youth and adults.

3.0: MACP Outcome 3: Knowledge and Application of systems of psychotherapy for children, adults, and couple and families.
Providing Department: Master of Arts in Counseling Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to work with youth and adults experiencing clinically distressing symptoms or adjustment issues using a psychotherapy approach.

4.0: MACP Outcome 4: Synthesis and Application of Research
Providing Department: Master of Arts in Counseling Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be proficient in understanding basic research design, submitting approval for research, and conducting an independent research project as part of the capstone project.

5.0: MACP Outcome 5.0: Honors Ethical Principals, values diversity, and promotes recovery.
Providing Department: Master of Arts in Counseling Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates of the program understand and honor the ethical principles of the field. They value cultural diversity and respond with competency in addressing the needs of clients from various cultural, ethnic, religious, and sexual diversity backgrounds. Graduates also understand a recovery in working with clients with various mental health challenges.
Master of Arts in School and Community Psychology

1: SCP Learning Outcome 1: Knowledge
Providing Department: Master of Arts in School and Community Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will display sufficient knowledge of School Psychology practice within all ten domains as outlined by our national association--The National Association of School Psychologists.

2: SCP Learning Outcome 2: Applied Skills
Providing Department: Master of Arts in School and Community Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will display sufficient applied skills in the field of School Psychology practice, including assessment, consultation, and intervention.

3: SCP Learning Outcome 3: Professional Dispositions
Providing Department: Master of Arts in School and Community Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will display sufficient professional dispositions necessary for successful School Psychology practice as outlined by our national association--The National Association of School Psychologists.

Master of Education in Counseling

1.: Learning Outcome
Providing Department: Master of Education in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Students will be able to identify and describe guidance activities within the umbrellas of Counseling, Consulting and Coordination within Clinical Mental Health and school settings.

2.: Learning Outcome
Providing Department: Master of Education in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to define and give examples of application of psychological and classroom management principles in working with clients in a clinical mental health and/or classroom setting.

3.: Learning Outcome
Providing Department: Master of Education in Counseling
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
3. Students will be able to demonstrate competencies in career guidance techniques and counseling techniques when working with youth facing career choices.

Master of Education in Educational Evaluation and Research

All: Learning Outcomes
Providing Department: Master of Education in Educational Evaluation and Research
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Educational Evaluation and Research program offers concentrated programs for building careers and leadership positions in educational statistics, research, measurement, and evaluation. As of 2015, over 50 students have graduated from the Master's (M. Ed.) program, and are employed in associate roles in educational statistics, research, measurement, and evaluation in education, psychology, government, hospitals, business, and industry.

EER majors are required to master statistics packages and programming platforms that are essential for the coursework specific to their Plan of Work. Currently, this may include SPSS, Minitab, StatXact, LogXact, AMOS, LISREL, Excel, Fortran, and R in the quantitative track; NVivo in the qualitative track; and Iteman, ASCAL, Multilog, and AMOS in the Measurement track.
Quantitative students are required to demonstrate mastery in the ethical use of descriptive statistics (frequency distributions; charts; and both ordinary and robust measures of central tendency, variability, and bivariate analysis); and parametric, nonparametric, robust, and exact inferential univariate statistics (one sample, two independent and dependent samples, k-samples, factorial, and covariance layouts) and univariate modeling (ordinary least squares & logistic modeling), multivariate (two independent and dependent samples, k-samples, factorial, covariance, canonical layouts), structural equation modeling, and quantitative program evaluation models. Monte Carlo methods are offered as an option for students wishing to pursue a dissertation requiring its abilities.

Qualitative students are required to demonstrate mastery in epistemological, ontological, and methodological theory as it applies to the ethical application of ethnography, grounded theory, videography, poetic, phenomenology, narrative, action, collaboration, and arts-based approaches through fieldwork, long non-therapeutic interviews, focus groups, observations, and documentary analysis. Post-positivist and post-structural ethnographic naturalistic-interpretivist skills are developed via semantic domain analysis, taxonomic analysis, componential, and slice-in-time analysis. Data analysis skills (memoing, transcription, pre/first-cycle/second-cycle coding, pattern coding, data/checklist/matrix/network/thematic displays, explanation prediction within-case vs cross case displays) for the purposes of describing, ordering, explaining and predicting, and negative case analysis. The student will investigate and formally adopt of one the major traditions of qualitative research, although display master of all major traditions.

Measurement students are required to demonstrate mastery in classical measurement theory (strong statistics vs. weak measurement controversy, instrument reliability measures of internal consistency, test-retest, parallel forms, attenuation; content, predictive, concurrent, and construct validity of the usage of tests) and modern measurement theory (item response theory/latent trait methods, differential item functioning).

Master of Education in Educational Psychology

1: Knowledge of human development
Providing Department: Master of Education in Educational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will learn about and be able to apply theories and research about human development. Topics included are ones on physical, cognitive, social, and emotional development. Additional topics include attachment theory, temperament, development of intelligence, and adolescent social behavior and risk taking.

2: Application of behavior change models
Providing Department: Master of Education in Educational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning outcomes for this goal include knowledge and understanding of learning theories such as classical, operant, cognitive, cognitive-behavioral and social learning theories to a variety of applied situations. Students will learn to understand the world around them and to implement behavior changes as appropriate to their work environments.

3: Synthesis and application of psychological knowledge
Providing Department: Master of Education in Educational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
With the guidance of a professor, students will integrate the knowledge that they have learned by writing a lengthy paper on a mutually agreed upon topic in the field of Educational Psychology.

College of Engineering

Alternative Energy Technology Program
Graduate Certificate in Alternative Energy Technology

1: Comprehend the engineering fundamentals of various types of fuel cell systems, hydrogen reforming and storage strategy, system design and integration issues, and system evaluation and economic analysis.
Providing Department: Graduate Certificate in Alternative Energy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Comprehend the engineering fundamentals of various types of fuel cell systems, hydrogen reforming and storage strategy, system design and integration issues, and system evaluation and economic analysis.

2: Apply the energy system fundamentals and analyses to address the key issues in design and integration of various AET systems, in particular solar heating and photovoltaic, wind turbine, biomass conversion and fuel cells.
Providing Department: Graduate Certificate in Alternative Energy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply the energy system fundamentals and analyses to address the key issues in design and integration of various AET systems, in particular solar heating and photovoltaic, wind turbine, biomass conversion and fuel cells.
Master of Science in Alternative Energy Technology

1: Comprehend the engineering fundamentals of various types of fuel cell systems, hydrogen reforming and storage strategy, system design and integration issues, and system evaluation and economic analysis.

Providing Department: Master of Science in Alternative Energy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Comprehend the engineering fundamentals of various types of fuel cell systems, hydrogen reforming and storage strategy, system design and integration issues, and system evaluation and economic analysis.

2: Apply the energy system fundamentals and analyses to address the key issues in design and integration of various AET systems, in particular solar heating and photovoltaic, wind turbine, biomass conversion and fuel cells.

Providing Department: Master of Science in Alternative Energy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply the energy system fundamentals and analyses to address the key issues in design and integration of various AET systems, in particular solar heating and photovoltaic, wind turbine, biomass conversion and fuel cells.

3: Gain knowledge and skill to apply systematic and structured methodology to economically implement AE systems.

Providing Department: Master of Science in Alternative Energy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Gain knowledge and skill to apply systematic and structured methodology to economically implement AE systems.

4: Equipped with the knowledge and skill to provide engineering services in planning, designing and constructing hydrogen infrastructure components and systems.

Providing Department: Master of Science in Alternative Energy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Equipped with the knowledge and skills to provide engineering services in planning, designing and constructing hydrogen infrastructure components and systems.

Biomedical Engineering

Bachelor of Science in Biomedical Engineering

BS-BME1: Apply life science, physical science, math (incl difeq and statistics), and engineering

Providing Department: Bachelor of Science in Biomedical Engineering
Start: 1/1/2015
End: 8/31/2018

Learning Outcome Description
Apply life science, physical science, math (incl difeq and statistics), and engineering

BS-a: Apply knowledge of math, science, and engineering

Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2016

Learning Outcome Description
ABET A.) Students will demonstrate an ability to apply knowledge of mathematics, science, and engineering

BS-b: Ability to design and conduct experiments, analyze and interpret data

Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2018

Learning Outcome Description

BS-bme1: Understanding of biology & physiology

Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 1/7/2015
Learning Outcome Description
Students will demonstrate an understanding of biology and physiology.

<table>
<thead>
<tr>
<th>BS-bme2-1: Apply advanced math, including differential equations, to solve problems at the interface of engineering and biology</th>
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</thead>
<tbody>
<tr>
<td><strong>Providing Department:</strong> Bachelor of Science in Biomedical Engineering</td>
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<tr>
<td><strong>Start:</strong> 9/1/2010</td>
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<td><strong>End:</strong> 1/7/2015</td>
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<td><strong>Learning Outcome Description</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>BS-bme2-2: Apply advanced math, including statistics, to solve problems at the interface of engineering and biology</th>
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<tbody>
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<th>BS-bme2-3: Apply science &amp; engineering to solve problems at the interface of engineering and biology</th>
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<th>BS-bme3-1: Make measurements on and interpret data from living systems</th>
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<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students will be able to make measurements on and interpret data from living systems.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BS-bme3-2: Addressing problems associated with the interaction between living and non-living materials and systems</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Providing Department:</strong> Bachelor of Science in Biomedical Engineering</td>
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<tr>
<td><strong>Start:</strong> 9/1/2010</td>
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<td><strong>End:</strong> 1/7/2015</td>
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<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students will be able to address problems associated with the interaction between living and non-living materials and systems.</td>
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</table>

<table>
<thead>
<tr>
<th>BS-c: Design a system, component, or process to meet desired needs within realistic constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Providing Department:</strong> Bachelor of Science in Biomedical Engineering</td>
</tr>
<tr>
<td><strong>Start:</strong> 9/1/2010</td>
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<tr>
<td><strong>End:</strong> 8/31/2016</td>
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<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students will be able to design a system, component, or process to meet desired needs within realistic constraints.</td>
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<table>
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<tr>
<th>BS-d: Function on multidisciplinary teams</th>
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<tbody>
<tr>
<td><strong>Providing Department:</strong> Bachelor of Science in Biomedical Engineering</td>
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<tr>
<td><strong>Start:</strong> 9/1/2010</td>
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<tr>
<td><strong>End:</strong> 8/31/2016</td>
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<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students will be able to function on multidisciplinary teams.</td>
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<table>
<thead>
<tr>
<th>BS-e: Identify, formulate, and solve engineering problems</th>
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</thead>
<tbody>
<tr>
<td><strong>Providing Department:</strong> Bachelor of Science in Biomedical Engineering</td>
</tr>
<tr>
<td><strong>Start:</strong> 9/1/2010</td>
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<tr>
<td><strong>End:</strong> 8/31/2016</td>
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<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students will be able to identify, formulate, and solve engineering problems.</td>
</tr>
</tbody>
</table>
BS-f: Understanding of professional ethical responsibility
Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2018

Learning Outcome Description
understanding of professional ethical responsibility

BS-g: Communicate effectively
Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2016

Learning Outcome Description
Students will be able to communicate effectively.

BS-h: Understand the impact of engineering solutions in a global, economic, environmental, and societal context
Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2016

Learning Outcome Description
Students will understand the impact of engineering solutions in a global, economic, environmental, and societal context.

BS-i: Recognize the need for and ability to engage in lifelong learning
Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2016

Learning Outcome Description
Students will recognize the need for and have the ability to engage in lifelong learning.

BS-j: Demonstrate a knowledge of contemporary issues
Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2016

Learning Outcome Description
Students will be able to demonstrate a knowledge of contemporary issues.

BS-k: Ability to use techniques, skills, and modern engineering tools necessary for engineering practice
Providing Department: Bachelor of Science in Biomedical Engineering
Start: 9/1/2010
End: 8/31/2016

Learning Outcome Description
Students will demonstrate the ability to use techniques, skills, and modern engineering tools necessary for engineering practice.

Doctorate of Philosophy in Biomedical Engineering

PhD-1: Apply math, science and engineering concepts to identify, formulate and solve problems in biology and medicine, design and conduct scientific experiments and analyze and interpret the resulting data.
Providing Department: Doctorate of Philosophy in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to apply math, science and engineering concepts to identify, formulate and solve problems in biology and medicine, design and conduct scientific experiments and analyze and interpret the resulting data.

PhD-2: The graduates will be able to plan and conduct independent research which leads to the development of new knowledge, new approaches, solutions and/or instruments for biology and medicine.
Providing Department: Doctorate of Philosophy in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to plan and conduct independent research which leads to the development of new knowledge, new approaches, solutions and/or instruments for biology and medicine.
PhD-3: Effectively communicate scientific and engineering concepts to audiences with a broad range of technical knowledge.
Providing Department: Doctorate of Philosophy in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to effectively communicate scientific and engineering concepts to audiences with a broad range of technical knowledge.

PhD-4: Obtain sufficient understanding of the mathematical, physical and biological sciences for comprehension of literature in these and related fields.
Providing Department: Doctorate of Philosophy in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to obtain a sufficient understanding of the mathematical, physical and biological sciences for comprehension of literature in these and related fields.

Master of Science in Biomedical Engineering

MS-1: Apply math, science and engineering concepts to identify and solve problems in biology and medicine.
Providing Department: Master of Science in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to apply math, science, and engineering concepts to identify and solve problems in biology and medicine.

MS-2: Obtain sufficient understanding of the mathematical, physical and biological sciences for comprehension of literature in these and related fields.
Providing Department: Master of Science in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to obtain sufficient understanding of the mathematical, physical and biological sciences for comprehension of literature in these and related fields.

MS-3: Use the techniques, skills, and modern science and engineering tools in biomedical engineering.
Providing Department: Master of Science in Biomedical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to use the techniques, skills and modern science and engineering tools in biomedical engineering.

Chemical Engineering and Materials Science

Bachelor of Science in Chemical Engineering

a: an ability to apply knowledge of mathematics, science, and engineering
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to apply knowledge of mathematics, science, and engineering.

b: an ability to design and conduct experiments, as well as to analyze and interpret data
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Student will demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data.

c: an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
environmental, social, political, ethical, health and safety, manufacturability, and sustainability

d: an ability to function on multidisciplinary teams
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to function on multidisciplinary teams

e: an ability to identify, formulate, and solve engineering problems
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to identify, formulate, and solve engineering problems

f: an understanding of professional and ethical responsibility
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an understanding of professional and ethical responsibility

g: an ability to communicate effectively
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to communicate effectively

h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

i: a recognition of the need for, and an ability to engage in life-long learning
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate a recognition of the need for, and an ability to engage in life-long learning

j: a knowledge of contemporary issues
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate a knowledge of contemporary issues

k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Providing Department: Bachelor of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
1: Learning Outcome
Providing Department: Doctor of Philosophy in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to produce and defend an original contribution to knowledge

2: Learning Outcome
Providing Department: Doctor of Philosophy in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate mastery of advanced subject material in Chemical Engineering

3: Learning Outcome
Providing Department: Doctor of Philosophy in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to conduct scholarly activities in an ethical manner

Doctor of Philosophy in Materials Science and Engineering

1: Produce and defend an original contribution to Materials Science knowledge [PhD MSE]
Providing Department: Doctor of Philosophy in Materials Science and Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to produce and defend an original contribution to Materials Science knowledge

2: Demonstrate mastery of advanced subject material in Materials Science [PhD MSE]
Providing Department: Doctor of Philosophy in Materials Science and Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will demonstrate mastery of advanced subject material in Materials Science

3: Conduct activities in an ethical manner [PhD MSE]
Providing Department: Doctor of Philosophy in Materials Science and Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to conduct scholarly & professional activities in the field of Materials Science in an ethical manner.

Graduate Certificate in Polymer Engineering

1: Demonstrate mastery of advanced subject material [GC PE]
Providing Department: Graduate Certificate in Polymer Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate mastery of advanced subject material in Polymer Science and Engineering

Master of Science in Chemical Engineering

1: Learning Outcome
Providing Department: Master of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate mastery of advanced subject material in Chemical Engineering.
2: Learning Outcome
Providing Department: Master of Science in Chemical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to conduct scholarly activities in an ethical manner

Master of Science in Materials Science and Engineering

1: Demonstrate mastery of advances subject material [MS MSE]
Providing Department: Master of Science in Materials Science and Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Building upon an appropriate background in engineering and/or physical sciences at the baccalaureate level, students will be able to demonstrate mastery of advanced subject material in Materials Science

2: Conduct activities in an ethical manner [MS MSE]
Providing Department: Master of Science in Materials Science and Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to conduct professional and scholarly activities in an ethical manner.

Civil and Environmental Engineering

Bachelor of Science in Civil Engineering

a: The ability to apply knowledge of mathematics, science and engineering within the framework of solving civil engineering problems, including...
Providing Department: Bachelor of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The ability to apply knowledge of mathematics, science and engineering within the framework of solving civil engineering problems, including the analysis and design of structures, transportation systems, water treatment and supply systems, wastewater collection and treatment systems, as well as the geotechnical aspects of each.

b: The ability to design and conduct experiments, as well as collect and interpret experimental data, pertaining to civil engineering systems.
Providing Department: Bachelor of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description


c: The ability to design a civil engineering system, system component or process which meets specific needs.
Providing Department: Bachelor of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description


d: The ability to collaborate, communicate and work effectively with others on multi-disciplinary teams.
Providing Department: Bachelor of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description


e: The ability to identify, formulate and solve a range of civil engineering problems.
Providing Department: Bachelor of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
**f:** An understanding and appreciation of professional and ethical responsibility in the practice of civil engineering.
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**

| **g:** The ability to communicate effectively in both written and oral form.  
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

| **h:** A broad educational background which addresses the importance of global and societal factors as they affect and are affected by civil engineering systems.  
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

| **i:** An understanding of the importance of life-long learning and continuing education  
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

| **j:** An understanding of important contemporary issues within and outside the civil engineering profession.  
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

| **k:** The ability to use the techniques, skills and modern engineering tools required for the practice of civil engineering.  
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

| **l:** An understanding of civil engineering professional practice issues such as: procurement of work, bidding versus quality-based selection processes, addressing public safety concerns in project design, how design professionals interact with the construction  
*Providing Department:* Bachelor of Science in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

**Doctor of Philosophy with a major in Civil Engineering**

| **1:** Design and complete original research in their specialty area.  
*Providing Department:* Doctor of Philosophy with a major in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |

| **2:** Demonstrate the ability to lead project teams.  
*Providing Department:* Doctor of Philosophy with a major in Civil Engineering  
*Start:* 9/1/2014  
*End:* 8/31/2015  |
| **Learning Outcome Description** |
3: Evaluate complex and novel engineering problems and derive solutions using original (non-standard) approaches and methodologies.
Providing Department: Doctor of Philosophy with a major in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

4: Communicate technical information to a range of audiences both verbally and in writing.
Providing Department: Doctor of Philosophy with a major in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

5: Demonstrate professionalism with a commitment to the highest standards of ethical principles.
Providing Department: Doctor of Philosophy with a major in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Master of Science in Civil Engineering

1: Demonstrate the skills and competency to function in, and ultimately lead, project teams.
Providing Department: Master of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

2: Analyze and solve complex and emerging engineering problems using newly developed approaches and methodologies.
Providing Department: Master of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

3: Communicate technical information to a range of audiences both verbally and in writing.
Providing Department: Master of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

4: Demonstrate professionalism with a commitment to the highest standards of ethical principles.
Providing Department: Master of Science in Civil Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Computer Science

Bachelor of Science in Computer Science

LO1: BS Computer Science_LO 1, Apply Principles
Providing Department: Bachelor of Science in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to apply the principles of computer science, mathematics, and scientific investigation to solve real-world problems appropriate to the discipline.
LO2: BS Computer Science_LO 2_Lifelong Learning Skills
Providing Department: Bachelor of Science in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will have lifelong learning skills, which will allow them to successfully adapt to evolving technologies throughout their professional careers.

LO3: BS Computer Science_LO 3_Prepared for Employment and Advanced Studies
Providing Department: Bachelor of Science in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students are sufficiently prepared for employment and advanced studies, and will have significant experiences with complex software development for real-world problems.

LO4: BS Computer Science_LO 4_Teamwork, Communication, and Interpersonal Skills
Providing Department: Bachelor of Science in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will have sufficient teamwork, communication, and interpersonal skills to enable them to work with others effectively in their professional careers.

LO5: BS Computer Science_LO 5_Function Ethically and Responsibly
Providing Department: Bachelor of Science in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students can function ethically and responsibly, and are conscious of ethical, social, global, legal, security and professional issues related to computing.

LO1: PhD Computer Science LO1 Advanced Study and Research
Providing Department: Doctor of Philosophy with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students must demonstrate the ability to engage in advanced study and research.

LO2: PhD Computer Science LO2 Understand Research and Tools
Providing Department: Doctor of Philosophy with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students must demonstrate the ability to understand the major research questions and fundamental tools needed to solve problems in a given sub-field of Computer Science.

LO3: PhD Computer Science LO3 Original and Scholarly Research
Providing Department: Doctor of Philosophy with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students must produce original and scholarly research that contributes to one or more of the sub-fields of Computer Science.

LO4: PhD Computer Science LO4 Research Contribution
Providing Department: Doctor of Philosophy with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students are expected to have made a significant contribution to research in their sub-field and as a result have become integrated into their various professional communities. They will then be in a position to address large scale issues of both national and global concern.
Master of Science with a Major in Computer Science

LO1: MS Computer Science_LO1_Analyze and produce solution
Providing Department: Master of Science with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution, and produce a corresponding implementation.

LO2: MS Computer Science_LO2_Questions and Research
Providing Department: Master of Science with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
An ability to understand the fundamental questions relevant to state of research in a selected sub-discipline as presented in CSC 7000 level courses.

LO3: MS Computer Science_LO3_Advance the Field
Providing Department: Master of Science with a Major in Computer Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
An ability to advance the field in the core subject areas through the production of new software, algorithms, and models as documented in peer reviewed publications in the field.

Electrical and Computer Engineering
Bachelor of Science in Electrical Engineering

a: An ability to apply knowledge of mathematics, science, and engineering.
Providing Department: Bachelor of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate an ability to apply knowledge of mathematics, science, and engineering.

b: An ability to design and conduct experiments, as well as to analyze and interpret data.
Providing Department: Bachelor of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data.

c: An ability to design a system, component or process to meet desired needs.
Providing Department: Bachelor of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate an ability to design a system, component or process to meet desired needs.

d: An ability to function on multidisciplinary teams.
Providing Department: Bachelor of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate an ability to function on multidisciplinary teams.

e: An ability to identify, formulate, and solve engineering problems.
Providing Department: Bachelor of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate an ability to identify, formulate, and solve engineering problems.
f. An understanding of professional and ethical responsibility.
   Providing Department: Bachelor of Science in Electrical Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will demonstrate an understanding of professional and ethical responsibility.

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g. An ability to communicate effectively.
   Providing Department: Bachelor of Science in Electrical Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will demonstrate an ability to communicate effectively.

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h. The broad education necessary to understand the impact of engineering solutions in a global and societal context.
   Providing Department: Bachelor of Science in Electrical Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will demonstrate the broad education necessary to understand the impact of engineering solutions in a global and societal context.

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i. A recognition of the need for, and an ability to engage in, life-long learning.
   Providing Department: Bachelor of Science in Electrical Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will demonstrate a recognition of the need for, and an ability to engage in, life-long learning.

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j. A knowledge of contemporary issues.
   Providing Department: Bachelor of Science in Electrical Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   A knowledge of contemporary issues.

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k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
   Providing Department: Bachelor of Science in Electrical Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

---

Doctor of Philosophy in Computer Engineering

1: Learning Outcome
   Providing Department: Doctor of Philosophy in Computer Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will be able to demonstrate mastery of advanced principles pertaining to the computer engineering research path of the Ph.D. candidate.

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2: Learning Outcome
   Providing Department: Doctor of Philosophy in Computer Engineering
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Students will be able to plan and conduct independent research which leads to the development of new knowledge, approaches and solutions for computer engineering problems.

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3: Learning Outcome
   Providing Department: Doctor of Philosophy in Computer Engineering
   Start: 9/1/2014
   End: 8/31/2015

Learning Outcome Description
Students will be able to effectively communicate, both verbally and in writing, scientific and engineering concepts to audiences with a broad range of technical knowledge.

Doctor of Philosophy in Electrical Engineering

1. Learning Outcome
Providing Department: Doctor of Philosophy in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate mastery of advanced principles pertaining to the electrical engineering research path of the Ph.D. candidate.

2. Learning Outcome
Providing Department: Doctor of Philosophy in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to plan and conduct independent research which leads to the development of new knowledge, approaches and solutions for electrical engineering problems.

3. Learning Outcome
Providing Department: Doctor of Philosophy in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to effectively communicate, both verbally and in writing, scientific and engineering concepts to audiences with a broad range of technical knowledge.

Master of Science in Computer Engineering

1. Learning Outcome
Providing Department: Master of Science in Computer Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to tackle complex and challenging computer engineering problems using contemporary approaches and methodologies.

2. Learning Outcome
Providing Department: Master of Science in Computer Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to use techniques, skills, and modern engineering tools necessary for computer engineering practice.

3. Learning Outcome
Providing Department: Master of Science in Computer Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate comprehension of contemporary literature in the computer engineering area.

Master of Science in Electrical Engineering

1. Learning Outcome
Providing Department: Master of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to tackle complex and challenging electrical engineering problems using contemporary approaches and methodologies.
2: Learning Outcome
Providing Department: Master of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to use techniques, skills, and modern engineering tools necessary for electrical engineering practice.

3: Learning Outcome
Providing Department: Master of Science in Electrical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate comprehension of contemporary literature in the electrical engineering area.

Undergraduate Certificate in Control Systems

a: An ability to apply knowledge of mathematics, science, and engineering
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to apply knowledge of mathematics, science, and engineering

b: An ability to design and conduct experiments, as well as to analyze and interpret data
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to design and conduct experiments, as well as to analyze and interpret data

c: An ability to design a system, component or process to meet desired needs
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to design a system, component or process to meet desired needs

d: An ability to function on multidisciplinary teams
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to function on multidisciplinary teams

e: An ability to identify, formulate, and solve engineering problems
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to identify, formulate, and solve engineering problems

f: An understanding of professional and ethical responsibility
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An understanding of professional and ethical responsibility

g: The broad education necessary to understand the impact of engineering solutions in a global and societal context
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The broad education necessary to understand the impact of engineering solutions in a global and societal context

j: A knowledge of contemporary issues
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
A knowledge of contemporary issues

k: An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
Providing Department: Undergraduate Certificate in Control Systems
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Electric-drive Vehicle Engineering Program
Graduate Certificate in Electric-drive Vehicle Engineering

1: An ability to select and apply a knowledge of mathematics, science, and engineering to identify and solve problems in ground vehicle electrification and hybridization and related general engineering areas.
Providing Department: Graduate Certificate in Electric-drive Vehicle Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to select and apply a knowledge of mathematics, science, and engineering to identify and solve problems in ground vehicle electrification and hybridization and related general engineering areas.

2: An ability to apply the methodologies, skills, and modern science and engineering tools in vehicle electrification and hybridization engineering design, research, development, and applications.
Providing Department: Graduate Certificate in Electric-drive Vehicle Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to apply the methodologies, skills, and modern science and engineering tools in vehicle electrification and hybridization engineering design, research, development, and applications.

Master of Science in Electric-drive Vehicle Engineering

1: An ability to select and apply a knowledge of mathematics, science, and engineering to identify and solve problems in ground vehicle electrification and hybridization and related general engineering areas.
Providing Department: Master of Science in Electric-drive Vehicle Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to select and apply a knowledge of mathematics, science, and engineering to identify and solve problems in ground vehicle electrification and hybridization and related general engineering areas.

2: An ability to apply the methodologies, skills, and modern science and engineering tools in vehicle electrification and hybridization engineering design, research, development, and applications.
Providing Department: Master of Science in Electric-drive Vehicle Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to apply the methodologies, skills, and modern science and engineering tools in vehicle electrification and hybridization engineering design, research, development, and applications.

3: An ability to design sub-systems, components, or processes for broadly-defined electric-drive or alternative energy vehicle problems appropriate to program educational objectives.
Providing Department: Master of Science in Electric-drive Vehicle Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
An ability to design sub-systems, components, or processes for broadly-defined electric-drive or alternative energy vehicle problems appropriate to program educational objectives.

4: An ability to identify, analyze, and solve broadly-defined electric-drive and alternative energy vehicle problems.
Providing Department: Master of Science in Electric-drive Vehicle Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
An ability to identify, analyze, and solve broadly-defined electric-drive and alternative energy vehicle problems.

Engineering Technology Division
Bachelor of Science in Computer Technology

GENa: an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities
Providing Department: Bachelor of Science in Computer Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities

GENb: an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
Providing Department: Bachelor of Science in Computer Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies

GENc: an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
Providing Department: Bachelor of Science in Computer Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes

GENd: an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
Providing Department: Bachelor of Science in Computer Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives

GENe: an ability to function effectively as a member or leader on a technical team
Providing Department: Bachelor of Science in Computer Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to function effectively as a member or leader on a technical team

GENf: an ability to identify, analyze, and solve broadly-defined engineering technology problems
Providing Department: Bachelor of Science in Computer Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to identify, analyze, and solve broadly-defined engineering technology problems
**GENc:** an ability to communicate effectively regarding broadly-defined engineering technology activities  
*Providing Department:* Bachelor of Science in Computer Technology  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**  
an ability to communicate effectively regarding broadly-defined engineering technology activities

**GENd:** an understanding of the need for and an ability to engage in self-directed continuing professional development  
*Providing Department:* Bachelor of Science in Computer Technology  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**  
an understanding of the need for and an ability to engage in self-directed continuing professional development

**GENe:** an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity  
*Providing Department:* Bachelor of Science in Computer Technology  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**  
an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity

**GENf:** a knowledge of the impact of engineering technology solutions in a societal and global context  
*Providing Department:* Bachelor of Science in Computer Technology  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**  
a knowledge of the impact of engineering technology solutions in a societal and global context

**GENg:** a commitment to quality, timeliness, and continuous improvement  
*Providing Department:* Bachelor of Science in Computer Technology  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**  
a commitment to quality, timeliness, and continuous improvement

**Bachelor of Science in Construction Management**

**GEN:** Ability to recognize and resolve issues and problems arising in construction  
*Providing Department:* Bachelor of Science in Construction Management  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**  
Ability to recognize and resolve issues and problems arising in construction

**2.a:** Knowledge of and techniques for: a. Construction materials and building systems  
*Providing Department:* Bachelor of Science in Construction Management  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**

**2.b:** Knowledge of and techniques for: b. Estimating, scheduling, and project administration  
*Providing Department:* Bachelor of Science in Construction Management  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**

**2.c:** Knowledge of and techniques for: c. On-site safety programs and quality assurance  
*Providing Department:* Bachelor of Science in Construction Management  
*Start:* 9/1/2014  
*End:* 8/31/2015

**Learning Outcome Description**
2.d Knowledge of and techniques for: d. On-site material delivery, storage and handling
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

2.e Knowledge of and techniques for: e. State-of-the-art construction equipment and methods
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

2.f Knowledge of and techniques for: f. Mechanical and electrical components and systems
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

2.g Knowledge of and techniques for: g. Land development
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

2.h Knowledge of and techniques for: h. Green construction and sustainability
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

2.i Knowledge of and techniques for: i. Relevant standards and codes
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

3: Understanding of contract law and ethical principles
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

4: Knowledge of advanced construction management software
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

5: Communicate effectively
Providing Department: Bachelor of Science in Construction Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
C: an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined electrified and alternative energy vehicle activities.
Providing Department: Bachelor of Science in Electric Transportation Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined electrified and alternative energy vehicle activities.

C: an ability to select and apply a knowledge of mathematics, science, engineering, and technology to vehicle electrification and alternative energy vehicle problems that require the application of principles and applied procedures or methodologies.
Providing Department: Bachelor of Science in Electric Transportation Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply a knowledge of mathematics, science, engineering, and technology to vehicle electrification and alternative energy vehicle problems that require the application of principles and applied procedures or methodologies.

C: an ability to design sub-systems, components, or processes for broadly-defined electric-drive or alternative energy vehicle problems appropriate to program educational objectives.
Providing Department: Bachelor of Science in Electric Transportation Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to design sub-systems, components, or processes for broadly-defined electric-drive or alternative energy vehicle problems appropriate to program educational objectives.

C: an ability to identify, analyze, and solve broadly-defined electric-drive and alternative energy vehicle problems.
Providing Department: Bachelor of Science in Electric Transportation Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to identify, analyze, and solve broadly-defined electric-drive and alternative energy vehicle problems.

Bachelor of Science in Electrical/Electronic Engineering Technology

GENC: an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities.
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities.

GENB: an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.

GEND: an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.

GEND: an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives.
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives,

GENe: an ability to function effectively as a member or leader on a technical team,
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
an ability to function effectively as a member or leader on a technical team

GENf: an ability to identify, analyze, and solve broadly-defined engineering technology problems,
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
an ability to identify, analyze, and solve broadly-defined engineering technology problems

GENg: an ability to communicate effectively regarding broadly-defined engineering technology activities,
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
an ability to communicate effectively regarding broadly-defined engineering technology activities

GENh: an understanding of the need for and an ability to engage in self-directed continuing professional development,
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
an understanding of the need for and an ability to engage in self-directed continuing professional development

GENi: an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity,
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity

GENj: a knowledge of the impact of engineering technology solutions in a societal and global context,
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
a knowledge of the impact of engineering technology solutions in a societal and global context

GENk: a commitment to quality, timeliness, and continuous improvement.
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
a commitment to quality, timeliness, and continuous improvement

ProgE1: the ability to analyze, design, and implement control systems, instrumentation systems, communications systems, computer systems, or power systems.
Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
the ability to analyze, design, and implement control systems, instrumentation systems, communications systems, computer systems, or power systems
ProgE2: the ability to apply project management techniques to electrical/electronic(s) systems.

Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
the ability to apply project management techniques to electrical/electronic(s) systems

ProgE3: the ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of electrical/electronic(s) systems.

Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
the ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of electrical/electronic(s) systems

ProgE4: the application of circuit analysis and design, computer programming, associated software, analog and digital electronics, and microcomputers, and engineering standards to the building, testing, operation, and maintenance of electrical/electronic(s) systems.

Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
the ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of electrical/electronic(s) systems

ProgE5: the applications of physics or chemistry to electrical/electronic(s) circuits in a rigorous mathematical environment at or above the level of algebra and trigonometry.

Providing Department: Bachelor of Science in Electrical/Electronic Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
the applications of physics or chemistry to electrical/electronic(s) circuits in a rigorous mathematical environment at or above the level of algebra and trigonometry

Bachelor of Science in Electromechanical Engineering Technology

GEN a: an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities;

Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities;

GEN b: an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;

Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;

GEN c: an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;

Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;

GEN d: an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;

Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to demonstrate an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives.

GEN e: an ability to function effectively as a member or leader on a technical team;
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to function effectively as a member or leader on a technical team;

GEN f : an ability to identify, analyze, and solve broadly-defined engineering technology problems;
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to identify, analyze, and solve broadly-defined engineering technology problems;

GEN g: an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;

GEN h: an understanding of the need for and an ability to engage in self-directed continuing professional development;
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an understanding of the need for and an ability to engage in self-directed continuing professional development;

GEN i: an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;

GEN j: a knowledge of the impact of engineering technology solutions in a societal and global context;
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate a knowledge of the impact of engineering technology solutions in a societal and global context;

GEN k: a commitment to quality, timeliness, and continuous improvement.
Providing Department: Bachelor of Science in Electromechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate a commitment to quality, timeliness, and continuous improvement.

Bachelor of Science in Mechanical Engineering Technology

M1: MCT Design Track Students in this track will demonstrate the ability to apply principles of materials and mechanics to the design and analysis of mechanical components and mechanisms.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students in the Design track will demonstrate the ability to apply principles of materials and mechanics to the design and analysis of mechanical components and mechanisms.

M2: MCT Energy Track Students in this track will demonstrate the ability to apply principles of thermo-fluid sciences to the design and analysis of energy systems.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students in the Energy track will demonstrate the ability to apply principles of thermo-fluid sciences to the design and analysis of energy systems.

M3: MCT Manufacturing Track Students in this track will demonstrate the ability to apply principles of materials and production techniques to the planning, implementation, and control of manufacturing processes.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students in the Manufacturing track will demonstrate the ability to apply principles of materials and production techniques to the planning, implementation, and control of manufacturing processes.

a: an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined engineering technology activities.

b: an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.

c: an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes.

d: an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives.

e: an ability to function effectively as a member or leader on a technical team.
Providing Department: Bachelor of Science in Mechanical Engineering Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
an ability to function effectively as a member or leader on a technical team.
\( f \): an ability to identify, analyze, and solve broadly-defined engineering technology problems  
Providing Department: Bachelor of Science in Mechanical Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
an ability to identify, analyze, and solve broadly-defined engineering technology problems

\( g \): an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature  
Providing Department: Bachelor of Science in Mechanical Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature

\( h \): an understanding of the need for and an ability to engage in self-directed continuing professional development,  
Providing Department: Bachelor of Science in Mechanical Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
an understanding of the need for and an ability to engage in self-directed continuing professional development

\( i \): an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity  
Providing Department: Bachelor of Science in Mechanical Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity

\( j \): a knowledge of the impact of engineering technology solutions in a societal and global context  
Providing Department: Bachelor of Science in Mechanical Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
a knowledge of the impact of engineering technology solutions in a societal and global context

\( k \): a commitment to quality, timeliness, and continuous improvement  
Providing Department: Bachelor of Science in Mechanical Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
a commitment to quality, timeliness, and continuous improvement

Master of Science in Engineering Technology

\( 1 \): Upon graduation, MSET students shall possess the abilities to: formulate and solve advanced engineering problems  
Providing Department: Master of Science in Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Upon graduation, MSET students shall possess the abilities to: formulate and solve advanced engineering problems

\( 2 \): Upon graduation, MSET students shall possess the abilities to: apply knowledge and cutting edge technology in a specialized area of their discipline  
Providing Department: Master of Science in Engineering Technology  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description
3: Upon graduation, MSET students shall possess the abilities to: design and conduct applied research project projects independently

**Providing Department:** Master of Science in Engineering Technology

**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**

- design and conduct applied research project projects independently

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4: Upon graduation, MSET students shall possess the abilities to: demonstrate the understanding of the role, ethics and social responsibility of the profession in the society

**Providing Department:** Master of Science in Engineering Technology

**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**

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Undergraduate Certificate in Advanced Energy Storage Systems

- **a:** an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined electrified and alternative energy vehicle activities.

  **Providing Department:** Undergraduate Certificate in Advanced Energy Storage Systems

  **Start:** 9/1/2014  
  **End:** 8/31/2015

  **Learning Outcome Description**

- an ability to select and apply the knowledge, techniques, skills, and modern tools of their disciplines to broadly-defined electrified and alternative energy vehicle activities.

- **b:** an ability to select and apply a knowledge of mathematics, science, engineering, and technology to vehicle electrification and alternative energy vehicle problems that require the application of principles and applied procedures or methodologies.

  **Providing Department:** Undergraduate Certificate in Advanced Energy Storage Systems

  **Start:** 9/1/2014  
  **End:** 8/31/2015

  **Learning Outcome Description**

- an ability to select and apply a knowledge of mathematics, science, engineering, and technology to vehicle electrification and alternative energy vehicle problems that require the application of principles and applied procedures or methodologies.

- **d:** an ability to design sub-systems, components, or processes for broadly-defined electric-drive or alternative energy vehicle problems appropriate to program educational objectives.

  **Providing Department:** Undergraduate Certificate in Advanced Energy Storage Systems

  **Start:** 9/1/2014  
  **End:** 8/31/2015

  **Learning Outcome Description**

- an ability to design sub-systems, components, or processes for broadly-defined electric-drive or alternative energy vehicle problems appropriate to program educational objectives.

- **f:** an ability to identify, analyze, and solve broadly-defined electric-drive and alternative energy vehicle problems.

  **Providing Department:** Undergraduate Certificate in Advanced Energy Storage Systems

  **Start:** 9/1/2014  
  **End:** 8/31/2015

  **Learning Outcome Description**

- an ability to identify, analyze, and solve broadly-defined electric-drive and alternative energy vehicle problems.

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Entrepreneurship Programs

**EDGE Engineering Entrepreneur Certificate**

- **LO-1:** BS Engineering LO 1.0 Knowledge of Principles of Business Operations

  **Providing Department:** EDGE Engineering Entrepreneur Certificate

  **Start:** 9/1/2014  
  **End:** 8/31/2015

  **Learning Outcome Description**

- Students will be able to recognize the contribution of principles, methods, procedures and tools of management, finance, marketing and the law apply in new business venture.
Indiana and Systems Engineering

Bachelor of Science in Industrial Engineering

All: Student Outcomes: Prepare graduates to attain the program educational objectives.
Providing Department: Bachelor of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
See more at ABET site

(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in life-long learning (j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

a: an ability to apply knowledge of mathematics, science, and engineering
Providing Department: Bachelor of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to apply knowledge of mathematics, science, and engineering

b: an ability to design and conduct experiments, as well as to analyze and interpret data
Providing Department: Bachelor of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data

c: an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
Providing Department: Bachelor of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

d: an ability to function on multidisciplinary teams
Providing Department: Bachelor of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to function on multidisciplinary teams
e: an ability to identify, formulate, and solve engineering problems  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate an ability to identify, formulate, and solve engineering problems.

f: an understanding of professional and ethical responsibility  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate an understanding of professional and ethical responsibility.

g: an ability to communicate effectively  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate an ability to communicate effectively.

h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

i: a recognition of the need for, and an ability to engage in life-long learning  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate a recognition of the need for, and an ability to engage in life-long learning.

j: a knowledge of contemporary issues  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate a knowledge of contemporary issues.

k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.  
Providing Department: Bachelor of Science in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Doctor of Philosophy in Industrial Engineering

1: Learning Outcomes - Knowledge and Scholarship  
Providing Department: Doctor of Philosophy in Industrial Engineering  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Outcome 1: Knowledge and Scholarship  
The student will be able to identify and conduct original research, scholarship, or creative endeavors.
2: Learning Outcomes - Analytical Thinking and Problem Solving
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Analytical Thinking and Problem Solving

Students will be able to think analytically, creatively, and solve problems in their field of study and in industry.

3: Learning Outcomes - Communication
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Communication

The student will be able to effectively communicate and lead in their field of study.

4: Learning Outcomes - Ethical Conduct
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Ethical Conduct

Students will be able to conduct research in an ethical and responsible manner and have a basic understanding of their ethical responsibilities as future engineers and industry leaders.

5: Learning Outcomes - Professional Development
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 5: Professional Development

Students will be able to demonstrate attributes of professional development consistent with expectations within their field of study and within their industry.

7: (Regular) Learning Outcomes - Knowledge & Scholarship
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Knowledge and Scholarship

The student will be able to identify and conduct original research, scholarship, or creative endeavors.

7: PhD Program Learning Outcomes
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Analytical Thinking and Problem Solving

Students will be able to think analytically, creatively, and solve problems in their field of study and in industry.
7: PhD Program Learning Outcomes
Providing Department: Doctor of Philosophy in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Ethical Conduct

Students will be able to conduct research in an ethical and responsible manner and have a basic understanding of their ethical responsibilities as future engineers and industry leaders.

Learning Outcome Description
Outcome 3: Communication

The student will be able to effectively communicate and lead in their field of study.

Learning Outcome Description
Outcome 5: Professional Development

Students will be able to demonstrate attributes of professional development consistent with expectations within their field of study and within their industry.

Engineering Management Bridge Graduate Certificate

1R: MSEM Program Learning Outcomes
Providing Department: Engineering Management Bridge Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Knowledge and Scholarship

The student will be able to identify and conduct original research, scholarship, or creative endeavors.

Learning Outcome Description
Outcome 2: Analytical Thinking and Problem Solving

Students will be able to think analytically, creatively, and solve problems in their field of study and in industry.

Learning Outcome Description
Outcome 3: Communication

The student will be able to effectively communicate and lead in their field of study.
4R: MSEM Program Learning Outcomes
Providing Department: Engineering Management Bridge Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Ethical Conduct

Students will be able to conduct research in an ethical and responsible manner and have a basic understanding of their ethical responsibilities as future engineers and industry leaders.

5R: MSEM Program Learning Outcomes
Providing Department: Engineering Management Bridge Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 5: Professional Development

Students will be able to demonstrate attributes of professional development consistent with expectations within their field of study and within their industry.

Graduate Certificate in Systems Engineering

1: Systems Engineering Graduate Certificate Learning Outcomes
Providing Department: Graduate Certificate in Systems Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Scholarship

Develop the ability to use computers to simulate for design, test and build automated systems, manage cost in the product development cycle and also Control and monitor quality during production.

2: Systems Engineering Graduate Certificate Learning Outcomes
Providing Department: Graduate Certificate in Systems Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Mastery of Subject Material

The student will be able to think critically and creatively to address technical problems in the fields spanned by Industrial & Systems Engineering.

3: Systems Engineering Graduate Certificate Learning Outcomes
Providing Department: Graduate Certificate in Systems Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Communication

The student will be able to synthesize and explain the relevance and application of new, advanced technical knowledge in both technical and non-technical terms.

4: Systems Engineering Graduate Certificate Learning Outcomes
Providing Department: Graduate Certificate in Systems Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Ethical Conduct

Student will be educated in ethical and responsible conduct in research and professional activities.

Master of Science in Engineering Management
1: Knowledge & Scholarship (LO1)
Providing Department: Master of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Knowledge and Scholarship

Understand and apply the principles and tools of industrial engineering to optimize systems and processes involving industry-relevant problems.

2: Mastery of Subject Material (LO2)
Providing Department: Master of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 2: Mastery of Subject Material

The student will be able to think critically and creatively to address technical problems in the fields spanned by Industrial & Systems Engineering.

3: Communication (LO3)
Providing Department: Master of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Communication

The student will be able to synthesize and explain the relevance and application of new, advanced technical knowledge in both technical and non-technical terms.

4: Ethical Conduct (LO4)
Providing Department: Master of Science in Industrial Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Ethical Conduct

Student will be educated in ethical and responsible conduct in research and professional activities.

Master of Science in Manufacturing Engineering

1: Knowledge & Scholarship (LO1)
Providing Department: Master of Science in Manufacturing Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Knowledge and Scholarship

Develop the ability to use computers to simulate for design, test and build automated systems, manage cost in the product development cycle and also Control and monitor quality during production.

2: Mastery of Subject Material (LO2)
Providing Department: Master of Science in Manufacturing Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Mastery of Subject Material

The student will be able to think critically and creatively to address technical problems in the fields spanned by Industrial & Systems Engineering.

3: Communication (LO3)
Providing Department: Master of Science in Manufacturing Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Communication

The student will be able to synthesize and explain the relevance and application of new, advanced technical knowledge in both technical and non-technical terms.

4: Ethical Conduct (LO4)
Providing Department: Master of Science in Manufacturing Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Ethical Conduct
Student will be educated in ethical and responsible conduct in research and professional activities.

**Mechanical Engineering**

**Bachelor of Science in Mechanical Engineering**

(a): BSME Learning Outcome

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
an ability to apply knowledge of mathematics, science, and engineering

(b): BSME Learning Outcome

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
an ability to design and conduct experiments, as well as to analyze and interpret data

(a): an ability to apply knowledge of mathematics, science, and engineering

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Students will be able to demonstrate an ability to apply knowledge of mathematics, science, and engineering

(b): an ability to design and conduct experiments, as well as to analyze and interpret data

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Students will be able to demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data

(c): an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Students will be able to demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

(d): an ability to function on multidisciplinary teams

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Students will be able to demonstrate an ability to function on multidisciplinary teams

(e): an ability to identify, formulate, and solve engineering problems

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Students will be able to demonstrate an ability to identify, formulate, and solve engineering problems

(f): an understanding of professional and ethical responsibility

**Providing Department:** Bachelor of Science in Mechanical Engineering  
**Start:** 9/1/2014  
**End:** 8/31/2015
Learning Outcome Description
Students will be able to demonstrate an understanding of professional and ethical responsibility

g: an ability to communicate effectively
Providing Department: Bachelor of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to communicate effectively

h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
Providing Department: Bachelor of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

i: a recognition of the need for, and an ability to engage in life-long learning
Providing Department: Bachelor of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate a recognition of the need for, and an ability to engage in life-long learning

j: a knowledge of contemporary issues
Providing Department: Bachelor of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate a knowledge of contemporary issues

k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
Providing Department: Bachelor of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Doctor of Philosophy in Mechanical Engineering

a: Contribute to the advancement of scientific and engineering knowledge.
Providing Department: Doctor of Philosophy in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

b: Demonstrate mastery of advanced principles pertaining to the selected research path of the Ph.D. candidate.
Providing Department: Doctor of Philosophy in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

c: Ability to conduct independent research work in mechanical engineering and related fields and
Providing Department: Doctor of Philosophy in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Master of Science in Mechanical Engineering

b: Use techniques, skills, and modern engineering tools necessary for mechanical engineering practice.
Providing Department: Master of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Master of Science in Mechanical Engineering
c: Engage in lifelong learning.
Providing Department: Master of Science in Mechanical Engineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Nanoengineering

UG Certificate in Nanoengineering

1.0: scale down engineering
Providing Department: UG Certificate in Nanoengineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students link more familiar bulk materials and phenomena with less familiar nanoscale phenomena.

2.0: nano utilization
Providing Department: UG Certificate in Nanoengineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students utilize engineered materials, processes, and devices at the nanoscale.

3.0: nano synthesis
Providing Department: UG Certificate in Nanoengineering
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students synthesize nanoparticles.

College of Fine, Performing Arts & Communication Arts

Department of Communication

BA in Communication Studies

#1: Communication: BA in Communication Studies Learning Outcome #1
Providing Department: BA in Communication Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to apply the appropriate research methods to answer questions about communication or communication-related issues.

#2: Communication: BA in Communication Studies Learning Outcome #2
Providing Department: BA in Communication Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to think critically about messages to reach an effective conclusion or outcome.
<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Providing Department</th>
<th>Start</th>
<th>End</th>
<th>Learning Outcome Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#3: Communication: BA in Communication Studies Learning Outcome #3</td>
<td>BA in Communication Studies</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students will develop competency in written communication skills.</td>
</tr>
<tr>
<td>#4: Communication: BA in Communication Studies Learning Outcome #4</td>
<td>BA in Communication Studies</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students will develop competency in oral communication skills.</td>
</tr>
<tr>
<td>#5: Communication: BA in Communication Studies Learning Outcome #5</td>
<td>BA in Communication Studies</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students will be able to utilize communication theory as a tool to understand how messages function across multiple contexts.</td>
</tr>
<tr>
<td>#1: Communication: BA in Film Learning Outcome #1</td>
<td>BA in Film</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students should be able to demonstrate an understanding of film history and theory.</td>
</tr>
<tr>
<td>#2: Communication: BA in Film Learning Outcome #2</td>
<td>BA in Film</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students should be able to demonstrate their storytelling skills in a variety of film genres and modes.</td>
</tr>
<tr>
<td>#3: Communication: BA in Film Learning Outcome #3</td>
<td>BA in Film</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students should be able to demonstrate their ability to shoot and edit motion picture narratives.</td>
</tr>
<tr>
<td>#4: Communication: BA in Film Learning Outcome #4</td>
<td>BA in Film</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students should be able to manage the resources and logistics inherent in producing a film.</td>
</tr>
<tr>
<td>BA in Journalism</td>
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<td></td>
</tr>
<tr>
<td>#1: Communication: BA in Journalism Learning Outcome #1</td>
<td>BA in Journalism</td>
<td>9/1/2014</td>
<td>8/31/2015</td>
<td>Students will be able to clearly show that they have learned to gather information through a variety of techniques used in the field using different media platforms.</td>
</tr>
</tbody>
</table>
#2: Communication: BA in Journalism Learning Outcome #2
Providing Department: BA in Journalism
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to show the ability to clearly, accurately, and concisely present information in compelling ways through different media.

#3: Communication: BA in Journalism Learning Outcome #3
Providing Department: BA in Journalism
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should show the ability to understand and use the profession's accepted ethical “best practices” in both gathering and presenting news as well as in their interactions with sources, audiences, peers and other professionals.

#4: Communication: BA in Journalism Learning Outcome #4
Providing Department: BA in Journalism
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should show an awareness that the profession is continuing and will continue to evolve, both in terms of ever-changing technology and in the structure of the workplace.

#5: Communication: BA in Journalism Learning Outcome #5
Providing Department: BA in Journalism
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will show that they can use critical thinking skills to make informed assessments as to the quality of both information gathered and the sources from which it is obtained.

BA in Media Arts and Studies

#1: Communication: BA in Media Arts and Studies Learning Outcome #1
Providing Department: BA in Media Arts and Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to demonstrate an understanding of media history and theory.

#2: Communication: BA in Media Arts and Studies Learning Outcome #2
Providing Department: BA in Media Arts and Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to successfully research, evaluate and synthesize information from various sources.

#3: Communication: BA in Media Arts and Studies Learning Outcome #3
Providing Department: BA in Media Arts and Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to demonstrate the ability to communicate effectively in writing and through various forms of media technologies.

#4: Communication: BA in Media Arts and Studies Learning Outcome #4
Providing Department: BA in Media Arts and Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to demonstrate creative, innovative, aesthetic and critical thinking skills in producing video and/or written works.
BA in Public Relations

#1: Communication: BA in Public Relations Learning Outcome #1
Providing Department: BA in Public Relations
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Public relations majors should have an understanding of how the history of public relations has influenced the development of ethical codes of conduct in the practice of public relations.

#2: Communication: BA in Public Relations Learning Outcome #2
Providing Department: BA in Public Relations
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Public relations majors should be able to use research methods and tools to develop public relations strategies.

#3: Communication: BA in Public Relations Learning Outcome #3
Providing Department: BA in Public Relations
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Public relations majors should be able to use communication theories in the practice of public relations.

#4: Communication: BA in Public Relations Learning Outcome #4
Providing Department: BA in Public Relations
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Public relations majors should be able to prepare appropriate communication materials for use in all media (print and digital).

#5: Communication: BA in Public Relations Learning Outcome #5
Providing Department: BA in Public Relations
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Public relations majors should understand all the management functions of public relations.

Graduate Certificate in Communication and New Media

1: Communication: Graduate Certificate in Communication and New Media Learning Outcome #1
Providing Department: Graduate Certificate in Communication and New Media
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Evaluate communication theory and research relevant to the chosen certificate.

2: Communication: Graduate Certificate in Communication and New Media Learning Outcome #2
Providing Department: Graduate Certificate in Communication and New Media
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Apply communication theory and research to analyze communication practices relevant to the chosen certificate.
Graduate Certificate in Dispute Resolution

#1: Communication: GC in Dispute Resolution Learning Outcome #1
Providing Department: Graduate Certificate in Dispute Resolution
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to identify relevant cultural frameworks when working with social conflict situations.

#2: Communication: GC in Dispute Resolution Learning Outcome #2
Providing Department: Graduate Certificate in Dispute Resolution
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to negotiate effectively drawing upon their knowledge of negotiation theory and best practice.

#3: Communication: GC in Dispute Resolution Learning Outcome #3
Providing Department: Graduate Certificate in Dispute Resolution
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to recommend an appropriate conflict engagement strategy when given a dispute fact pattern.

#4: Communication: GC in Dispute Resolution Learning Outcome #4
Providing Department: Graduate Certificate in Dispute Resolution
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to articulate roles for conflict engagement specialists in the organizations and communities they are part of, cognizant of current methods, opportunities and constraints in the field.

Graduate Certificate in Health Communication

1: Communication: Graduate Certificate in Health Communication Learning Outcome #1
Providing Department: Graduate Certificate in Health Communication
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Evaluate communication theory and research relevant to the chosen certificate.

2: Communication: Graduate Certificate in Health Communication Learning Outcome #2
Providing Department: Graduate Certificate in Health Communication
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply communication theory and research to analyze communication practices relevant to the chosen certificate.

JD/MA in Dispute Resolution

#1: Communication: JD/MA in Dispute Resolution Learning Outcome #1
Providing Department: JD/MA in Dispute Resolution
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to apply relevant cultural frameworks when working with social conflict situations.

#2: Communication: JD/MA in Dispute Resolution Learning Outcome #2
Providing Department: JD/MA in Dispute Resolution
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to negotiate effectively drawing upon their knowledge of negotiation theory and best practice.
#3: Communication: JD/MA in Dispute Resolution Learning Outcome #3  
Providing Department: JD/MA in Dispute Resolution  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students are able to conduct appropriate analyses of a given situation when recommending conflict engagement strategies.

#4: Communication: JD/MA in Dispute Resolution Learning Outcome #4  
Providing Department: JD/MA in Dispute Resolution  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students are able to mediate interpersonal or group conflicts using best practice approaches.

#5: Communication: JD/MA in Dispute Resolution Learning Outcome #5  
Providing Department: JD/MA in Dispute Resolution  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students are able to articulate their own professional identity as a conflict engagement specialist, cognizant of current methods, opportunities and constraints in the field.

MA in Communication

1: Communication: MA in Communication Learning Outcome #1  
Providing Department: MA in Communication  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Evaluate communication theory and research in the chosen concentration.

2: Communication: MA in Communication Learning Outcome #2  
Providing Department: MA in Communication  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Apply communication theory and research to analyze communication practices relevant to the chosen concentration.

3: Communication: MA in Communication Learning Outcome #3  
Providing Department: MA in Communication  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Produce scholarly or creative work as relevant to the chosen concentration.

4: Communication: MA in Communication Learning Outcome #4  
Providing Department: MA in Communication  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Present one’s own and other’s scholarly or creative work in a public setting.

5: Communication: MA in Communication Learning Outcome #5  
Providing Department: MA in Communication  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Adhere to ethical guidelines for work in the profession.
### MA in Dispute Resolution

<table>
<thead>
<tr>
<th>#1: Communication: MA in Dispute Resolution Learning Outcome #1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: MA in Dispute Resolution</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students are able to apply relevant cultural frameworks when working with social conflict situations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#2: Communication: MA in Dispute Resolution Learning Outcome #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: MA in Dispute Resolution</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
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<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students are able to negotiate effectively drawing upon their knowledge of negotiation theory and best practice.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#3: Communication: MA in Dispute Resolution Learning Outcome #3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: MA in Dispute Resolution</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students are able to conduct appropriate analyses of a given situation when recommending conflict engagement strategies.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#4: Communication: MA in Dispute Resolution Learning Outcome #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: MA in Dispute Resolution</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students are able to mediate interpersonal or group conflicts using best practice approaches.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#5: Communication: MA in Dispute Resolution Learning Outcome #5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: MA in Dispute Resolution</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Students are able to articulate their own professional identity as a conflict engagement specialist, cognizant of current methods, opportunities and constraints in the field.</td>
</tr>
</tbody>
</table>

### Ph.D. in Communication

<table>
<thead>
<tr>
<th>1: Communication: PhD in Communication Learning Outcome #1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: PhD in Communication</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Review literature in the communication field to identify new research questions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2: Communication: PhD in Communication Learning Outcome #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: PhD in Communication</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Conduct a study using appropriate methodology to answer a research question.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3: Communication: PhD in Communication Learning Outcome #3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing Department: PhD in Communication</td>
</tr>
<tr>
<td>Start: 9/1/2014</td>
</tr>
<tr>
<td>End: 8/31/2015</td>
</tr>
<tr>
<td><strong>Learning Outcome Description</strong></td>
</tr>
<tr>
<td>Communicate one's own and other's research in a public setting.</td>
</tr>
</tbody>
</table>
4: Communication: PhD in Communication Learning Outcome #4  
Providing Department: Ph.D. in Communication  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Adhere to ethical guidelines for work in the discipline.

Department of Music

BA in Music

1: BA Learning Outcome 1  
Providing Department: BA in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Develop technical and ensemble skills on an instrument or voice.

2: BA Learning Outcome 2  
Providing Department: BA in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate a fundamental knowledge of Music Theory and Music Analysis.

3: BA Learning Outcome 3  
Providing Department: BA in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate proficient aural and visual skills in reading and writing music as well as critical listening skills.

4: BA Learning Outcome 4  
Providing Department: BA in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate knowledge of historical Western musical styles, American vernacular styles and the music of World Cultures.

5: BA Learning Outcome 5  
Providing Department: BA in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate functional keyboard skills, including harmonization, simple transposition and improvisation.

6: BA Learning Outcome 6  
Providing Department: BA in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate an understanding of music within the context of the Liberal Arts.

BMus in Music

1: BM Learning Outcome 1  
Providing Department: BMus in Music  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate technical and ensemble skills as an instrumentalist or vocalist.
2: BM Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate a fundamental knowledge of Music Theory and Music Analysis.

3: BM Learning Outcome 3
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate proficient aural and visual skills in reading and writing music as well as in critical listening skills.

4: BM Learning Outcome 4
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate a knowledge of historical Western musical styles, American vernacular styles and the music of World Cultures.

5: BM Learning Outcome 5
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate functional keyboard skills, including harmonization, simple transposition and improvisation.

6: BM Learning Outcome 6
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate a high degree of proficiency in a specialized area.

7: BM Composition Concentration, Learning Outcome 1
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate understanding of compositional techniques, theoretical concepts and musical aesthetics from the 20th and 21st centuries.

8: BM Composition Concentration, Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Create original works for various musical ensembles and prepare them for public performance.

9: BM Composition Concentration, Learning Outcome 3
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
 Demonstrate keyboard skills appropriate to discipline.

10: BM Composition Concentration, Learning Outcome 4
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To achieve a measurable degree of technical mastery as an instrumentalist or vocalist, and to develop a significant body of skills sufficient to produce work consistent with the goals of Composition.

11: BM Performance Concentration, Learning Outcome 1
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate a high level of technical proficiency, stylistic understanding and musical understanding in solo and chamber music repertoire.

12: BM Performance Concentration, Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate familiarity with key pedagogical principles for their primary instrument/voice, including injury prevention and optimal use of the body.

13: BM Jazz Studies Concentration, Learning Outcome 1
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Perform with a high level of technical proficiency, stylistic understanding and improvisational skill in both large and small ensembles.

14: BM Jazz Studies Concentration, Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate specialized knowledge of jazz history and theory.

15: BM Jazz Studies Concentration, Learning Outcome 3
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Create effective original compositions and arrangements in various jazz styles.

16: BM Jazz Studies Concentration, Learning Outcome 4
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To achieve a measurable degree of technical mastery as a jazz instrumentalist, and to develop a significant body of skills sufficient to produce work consistent with the goals of Jazz Studies.

17: BM Music Education Concentration, Learning Outcome 1
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate basic proficiency on band and orchestral instruments and basic vocal technique.

18: BM Music Education Concentration, Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate strong conducting and classroom keyboard skills.
19: BM Music Education Concentration, Learning Outcome 3
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Show ability to structure successful learning experiences through effective planning, delivery and evaluation of instruction.

20: BM Music Education Concentration, Learning Outcome 4
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate understanding of K-12 students' vocal, motor and cognitive development in order to plan instruction and manage classroom behavior.

21: BM Music Education Concentration, Learning Outcome 5
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To achieve a measurable degree of technical mastery as an instrumentalist or vocalist, and to develop a significant body of skills sufficient to produce work consistent with the goals of Music Education.

22: BM Music Business Concentration, Learning Outcome 1
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate general business competencies in accounting, marketing and management.

23: BM Music Business Concentration, Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate specialized knowledge of the economic, legal and ethical issues specific to the business of music

24: BM Music Business Concentration, Learning Outcome 3
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate an understanding of programming, development and administration in non-profit and (for) profit musical organizations.

25: BM Music Business Concentration, Learning Outcome 4
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To achieve a measurable degree of technical mastery as an instrumentalist or vocalist, and to develop a significant body of skills sufficient to produce work consistent with the goals of Music Business.

26: BM Music Technology Concentration, Learning Outcome 1
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate an understanding of computer science and electrical engineering principles as relevant to the discipline.
27: BM Music Technology Concentration, Learning Outcome 2
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate a broad understanding and competence in all aspects of studio and live recordings.

28: BM Music Technology Concentration, Learning Outcome 3
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate an understanding of the techniques and practices of sound design for music and film.

29: BM Music Technology Concentration, Learning Outcome 4
Providing Department: BMus in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To achieve a measurable degree of technical mastery as an instrumentalist or vocalist, and to develop a significant body of skills sufficient to produce work consistent with the goals of Music Technology.

Graduate Certificate in Orchestral Studies

1: GC in Orchestral Studies, Learning Outcome 1
Providing Department: Graduate Certificate in Orchestral Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate competence in specialized concentration.

2: GC in Orchestral Studies, Learning Outcome 2
Providing Department: Graduate Certificate in Orchestral Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate a broad knowledge of orchestral repertoire and audition skills.

3: GC in Orchestral Studies, Learning Outcome 3
Providing Department: Graduate Certificate in Orchestral Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate highly advanced performance skills on primary orchestral instrument.

MA in Music

1: MA Learning Outcome 1
Providing Department: MA in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate a broad knowledge of Music History and Music Theory.

2: MA Learning Outcome 2
Providing Department: MA in Music
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Develop, organize and write research papers pertinent to area of student specialization and to the field of music in general.
3: MA Learning Outcome 3  
Providing Department: MA in Music  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Present significant original research with appropriate format and documentation.

MMus in Music  

1: MM Learning Outcome 1  
Providing Department: MMus in Music  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Demonstrate competence in specialized concentration.

2: MM Learning Outcome 2  
Providing Department: MMus in Music  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Demonstrate the synthesis of theoretical and historical knowledge within a specialized concentration.

3: MM Learning Outcome 3  
Providing Department: MMus in Music  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Develop, organize and write research papers pertinent to area of study and to the field of music in general.

James Pearson Duffy Department of Art and Art History  

1: All Student Learning Outcomes in the Department  
Providing Department: James Pearson Duffy Department of Art and Art History  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  

Learning Outcomes for All Degrees in the Department of Art and Art History  

September 18, 2014

List of Degrees: BA-Art; BA-Art History; BA-Design and Merchandising; BFA-Art; BS-Design and Merchandising; MA-Art; MA-Art History; MA-Design and Merchandising; MFA-Art

BA – Art

Learning Outcome 1: Base of knowledge

Demonstrate an effective knowledge of the essential materials and techniques appropriate to a variety of art and design applications.

Learning Outcome 2: Understanding
Demonstrate an effective knowledge of the historical, contemporary, and emergent practices appropriate to a variety of art and design applications.

Learning Outcome 3: Critical thinking

Demonstrate the ability to reflect on and articulate the effective application of materials, techniques, concepts and practices appropriate to artistic work.

Learning Outcome 4: Synthesis

Produce several art/design works that effectively integrate media, techniques, subject matter, and critical awareness to express a coherent intent.

BA – Art History

Learning Outcome 1: Base of Knowledge

Demonstrate an effective knowledge of art historical vocabulary; recognize basic techniques and materials used in making art; know major movements, monuments, artists, and styles.

Learning Outcome 2: Understanding

Analyze specific works of art and architecture in relationship to a variety of interpretive methods.

Learning Outcome 3: Critical Thinking

Demonstrate analytical skills in interpreting works of art both as formal structures and in relation to social and cultural contexts.

Learning Outcome 4: Synthesis

Research a topic and establish a thesis by synthesizing sources in a clearly organized and persuasive essay.

BA – Design and Merchandising

Learning Outcome 1: Base of Knowledge

Demonstrate an essential knowledge of the styles, materials, principles and practices of the design and production of apparel and merchandising of products.

Learning Outcome 2: Understanding

Develop an understanding of styles, creative designs, diverse construction methods, and merchandising practices in relation to individual, societal, cultural, commercial and global environments.

Learning Outcome 3: Critical Thinking

Demonstrate analytical and creative skills in producing conceptual and marketable designs, and applying merchandising concepts and strategies for effective positive outcomes in a variety of contexts.

Learning Outcome 4: Synthesis
Demonstrate the ability to research, produce a fashion collection and/or research study by synthesizing sources, methods and practices in a clear and cohesive essay and presentation.

**BFA – Art**

**Learning Outcome 1: Base of knowledge**

Demonstrate an effective knowledge of the essential materials and techniques appropriate to the selected area of concentration.

**Learning Outcome 2: Understanding**

Demonstrate an effective knowledge of the historical, contemporary, and emergent practices appropriate to the selected area of concentration.

**Learning Outcome 3: Critical thinking**

Demonstrate the ability to reflect on and articulate the effective application of materials, techniques, concepts and practices appropriate to artistic work produced in the selected area of concentration.

**Learning Outcome 4: Synthesis**

Produce a body of work that effectively integrates media, techniques, subject matter, and critical awareness to express a coherent intent.

**BS – Design and Merchandising**

**Learning Outcome 1: Base of Knowledge**

Demonstrate an essential knowledge of the styles, materials, principles and practices of the design and production of apparel and merchandising of products.

**Learning Outcome 2: Understanding**

Develop an understanding of styles, creative designs, diverse construction methods, and merchandising practices in relation to individual, societal, cultural, commercial and global environments.

**Learning Outcome 3: Critical Thinking**

Demonstrate analytical and creative skills in producing conceptual and marketable designs, and applying merchandising concepts and strategies for effective positive outcomes in a variety of contexts.

**Learning Outcome 4: Synthesis**

Demonstrate the ability to research, produce a fashion collection and/or research study by synthesizing sources, methods and practices in a clear and cohesive essay and presentation.

**MA – Art History**

**Learning Outcome 1: Base of Knowledge**

Demonstrate an advanced knowledge of art historical concepts and issues and in-depth knowledge of select areas of inquiry.
Learning Outcome 2: Understanding

Demonstrate an advanced ability to analyze specific works of art and architecture in relationship to a variety of interpretive methods.

Learning Outcome 3: Critical Thinking

Demonstrate mastery of analytical skills in interpreting works of art both as formal structures and in relation to social and cultural contexts.

Learning Outcome 4: Synthesis

Establish a thesis about a research topic and substantiate the position with evidence and by synthesizing sources; present the position in a clearly organized and persuasive essay.

MA – Art

Learning Outcome 1: Base of Knowledge

Demonstrate thorough knowledge of the materials and techniques appropriate to the selected area of concentration.

Learning Outcome 2: Understanding

Demonstrate an advanced understanding of the historical, contemporary and emergent practices appropriate to the selected area of concentration.

Learning Outcome 3: Critical Thinking

Demonstrate the ability to analyze and interpret artistic practices and critical theses in relation to social and cultural context.

Learning Outcome 4: Synthesis

Produce and exhibit a body of art that synthesizes media and techniques, subject matters and critical awareness that reflects a coherent intent.

MA – Design and Merchandising

Learning Outcome 1: Base of Knowledge

Demonstrate an advanced knowledge of the materials, principles and practices of the design and production of apparel and/or merchandising of products.

Learning Outcome 2: Understanding

Demonstrate an advanced understanding of creative design, diverse construction methods, and/or merchandising practices in relation to individual, societal, cultural, commercial and/or global environments.

Learning Outcome 3: Critical Thinking

Demonstrate mastery of analytical and creative skills in producing conceptual and marketable apparel designs and/or applying merchandising concepts and strategies for effective positive outcomes in a variety of contexts.

Learning Outcome 4: Synthesis

Define a research topic, research the background and produce a fashion collection or research study by synthesizing sources, methods and practices in a scholarly professional essay.
MFA – Art

Learning Outcome 1: Base of Knowledge

Demonstrate thorough knowledge of the materials and techniques appropriate to the selected area of concentration.

Learning Outcome 2: Understanding

Demonstrate an advanced understanding of the historical, contemporary and emergent practices appropriate to the selected area of concentration.

Learning Outcome 3: Critical Thinking

Demonstrate the ability to analyze and interpret artistic practices and critical theses in relation to a social and cultural context.

Learning Outcome 4: Synthesis

Produce and exhibit a body of art that synthesizes media and techniques, subject matters and critical awareness that reflects a coherent intent.

BA in Art

1: Base of Knowledge - SLO 1
Providing Department: BA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate an effective knowledge of essential materials and techniques appropriate to a variety of art and design applications.

2: Understanding - SLO2
Providing Department: BA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate an effective knowledge of the historical, contemporary, and emergent practices appropriate to a variety of art and design applications.

3: Critical Thinking - SLO3
Providing Department: BA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate the ability to reflect on and articulate the effective application of materials, techniques, concepts, and practices appropriate to artistic work.

4: Synthesis - SLO4
Providing Department: BA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Produce several art/design works that effectively integrate media, techniques, subject matter, and critical awareness to express a coherent intent.

BA in Art History
1: Base of Knowledge - SLO1
Providing Department: BA in Art History
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate an effective knowledge of art historical vocabulary; recognize basic techniques and materials used in making art; know major movements, monuments, artists, and styles.

2: Understanding - SLO2
Providing Department: BA in Art History
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Analyze specific works of art and architecture in relationship to a variety of interpretive methods.

3: Critical Thinking - SLO3
Providing Department: BA in Art History
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate analytical skills in interpreting works of art both as formal structures and in relation to social and cultural contexts.

4: Synthesis - SLO4
Providing Department: BA in Art History
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Research a topic and establish a thesis by synthesizing sources in a clearly organized and persuasive essay.

BA in Fashion Design and Merchandising

1: Base of Knowledge - SLO1
Providing Department: BA in Fashion Design and Merchandising
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate an essential knowledge of the styles, materials, principles and practices of the design and production of apparel and merchandising of products.

2: Understanding - SLO2
Providing Department: BA in Fashion Design and Merchandising
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Develop an understanding of styles, creative designs, diverse construction methods, and merchandising practices in relation to individual, societal, cultural, commercial and global environments.

3: Critical Thinking
Providing Department: BA in Fashion Design and Merchandising
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate analytical and creative skills in producing conceptual and marketable designs, and applying merchandising concepts and strategies for effective positive outcomes in a variety of contexts.
Learning Outcome 4: Synthesis

Demonstrate the ability to research, produce a fashion collection and/or research study by synthesizing sources, methods and practices in a clear and cohesive essay and presentation.

BFA in Art

1: Base of Knowledge - SLO1

Demonstrate an effective knowledge of the essential materials and techniques appropriate to the selected area of concentration.

2: Understanding - SLO2

Demonstrate an effective knowledge of the historical, contemporary, and emergent practices appropriate to the selected area of concentration.

3: Critical Thinking - SLO 3

Demonstrate the ability to reflect on and articulate the effective application of materials, techniques, concepts and practices appropriate to artistic work produced in the selected area of concentration.

4: Synthesis - SLO4

Produce a body of work that effectively integrates media, techniques, subject matter, and critical awareness to express a coherent intent.

BS in Fashion Design and Merchandising

1: Base of Knowledge - SLO1

Demonstrate an essential knowledge of the styles, materials, principles and practices of the design and production of apparel and merchandising of products.
2: Understanding - SLO2  
Providing Department: BS in Fashion Design and Merchandising  
Start: 9/1/2014  
End: 8/31/2015

Learning Outcome Description
Learning Outcome 2: Understanding

Develop an understanding of styles, creative designs, diverse construction methods, and merchandising practices in relation to individual, societal, cultural, commercial and global environments.

3: Critical Thinking - SLO3  
Providing Department: BS in Fashion Design and Merchandising  
Start: 9/1/2014  
End: 8/31/2015

Learning Outcome Description
Learning Outcome 3: Critical Thinking

Demonstrate analytical and creative skills in producing conceptual and marketable designs, and applying merchandising concepts and strategies for effective positive outcomes in a variety of contexts.

4: Synthesis - SLO4  
Providing Department: BS in Fashion Design and Merchandising  
Start: 9/1/2014  
End: 8/31/2015

Learning Outcome Description
Learning Outcome 4: Synthesis

Demonstrate the ability to research, produce a fashion collection and/or research study by synthesizing sources, methods and practices in a clear and cohesive essay and presentation.

MA in Art

1: Base of Knowledge - SLO1  
Providing Department: MA in Art  
Start: 9/1/2014  
End: 8/31/2015

Learning Outcome Description
Learning Outcome 1: Base of Knowledge

Demonstrate thorough knowledge of the materials and techniques appropriate to the selected area of concentration.

2: Understanding - SLO2  
Providing Department: MA in Art  
Start: 9/1/2014  
End: 8/31/2015

Learning Outcome Description
Learning Outcome 2: Understanding

Demonstrate an advanced understanding of the historical, contemporary and emergent practices appropriate to the selected area of concentration.

3: Critical Thinking - SLO3  
Providing Department: MA in Art  
Start: 9/1/2014  
End: 8/31/2015

Learning Outcome Description
Learning Outcome 3: Critical Thinking
Demonstrate the ability to analyze and interpret artistic practices and critical theses in relation to social and cultural context.

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
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<tbody>
<tr>
<td>Learning Outcome 4: Synthesis</td>
</tr>
</tbody>
</table>

Provide and exhibit a body of art that synthesizes media and techniques, subject matters and critical awareness that reflects a coherent intent.

MA in Art History

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
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<tbody>
<tr>
<td>Learning Outcome 1: Base of Knowledge</td>
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</tbody>
</table>

Demonstrate an advanced knowledge of art historical concepts and issues and in-depth knowledge of select areas of inquiry.

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
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</thead>
<tbody>
<tr>
<td>Learning Outcome 2: Understanding</td>
</tr>
</tbody>
</table>

Demonstrate an advanced ability to analyze specific works of art and architecture in relationship to a variety of interpretive methods.

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
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</thead>
<tbody>
<tr>
<td>Learning Outcome 3: Critical Thinking</td>
</tr>
</tbody>
</table>

Demonstrate mastery of analytical skills in interpreting works of art both as formal structures and in relation to social and cultural contexts.

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
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</thead>
<tbody>
<tr>
<td>Learning Outcome 4: Synthesis</td>
</tr>
</tbody>
</table>

Establish a thesis about a research topic and substantiate the position with evidence and by synthesizing sources; present the position in a clearly organized and persuasive essay.

MA in Fashion Design and Merchandising

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
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</thead>
<tbody>
<tr>
<td>Learning Outcome 1: Base of Knowledge</td>
</tr>
</tbody>
</table>

Wayne State University
Learning Outcome 1: Base Knowledge

Demonstrate an advanced knowledge of the materials, principles and practices of the design and production of apparel and/or merchandising of products.

2: Understanding - SLO2
Providing Department: MA in Fashion Design and Merchandising
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome 2: Understanding

Demonstrate an advanced understanding of creative design, diverse construction methods, and/or merchandising practices in relation to individual, societal, cultural, commercial and/or global environments.

3: Critical Thinking - SLO3
Providing Department: MA in Fashion Design and Merchandising
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome 3: Critical Thinking

Demonstrate mastery of analytical and creative skills in producing conceptual and marketable apparel designs and/or applying merchandising concepts and strategies for effective positive outcomes in a variety of contexts.

4: Synthesis - SLO4
Providing Department: MA in Fashion Design and Merchandising
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome 4: Synthesis

Define a research topic, research the background and produce a fashion collection or research study by synthesizing sources, methods and practices in a scholarly professional essay and presentation.

MFA in Art

1: Base of Knowledge - SLO1
Providing Department: MFA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome 1: Base of Knowledge

 Demonstrate thorough knowledge of the materials and techniques appropriate to the selected area of concentration.

2: Understanding - SLO2
Providing Department: MFA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome 2: Understanding

Demonstrate an advanced understanding of the historical, contemporary and emergent practices appropriate to the selected area of concentration.

3: Critical Thinking - SLO3
Providing Department: MFA in Art
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome 3: Critical Thinking

Demonstrate the ability to analyze and interpret artistic practices and critical theses in relation to a social and cultural context.

Learning Outcome 4: Synthesis

- **Providing Department:** MFA in Art
- **Start:** 9/1/2014
- **End:** 8/31/2015

Learning Outcome Description

Produce and exhibit a body of art that synthesizes media and techniques, subject matters and critical awareness that reflects a coherent intent.

Maggie Allesee Department of Theatre and Dance

**BA in Theatre**

- **Learning Outcome #1: Play Analysis - Given Circumstances**
  - **Providing Department:** BA in Theatre
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  Learning Outcome Description

  Graduam Students are able to apply a system of classification to examine the written part of a play that reveals the specific condition in which the action of the play occurs.

  Graduates G

- **Learning Outcome #2: Play Analysis - Character**
  - **Providing Department:** BA in Theatre
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  Learning Outcome Description

  Apply a system of classification to examine the written part of a play that reveals the character as a composition of a habitual pattern of action identifying a figure in a play.

**BFA in Dance**

- **1: BFA in Dance: Proficiency in Modern Dance Technique**
  - **Providing Department:** BFA in Dance
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  Learning Outcome Description

  Graduates demonstrate proficiency in the technical and expressive aspects of modern dance.

- **2: BFA in Dance: Competence in Ballet Technique**
  - **Providing Department:** BFA in Dance
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  Learning Outcome Description

  Students perform at the Department's Intermediate to Advanced level of Ballet Technique.

**BFA in Theatre**

- **1: BFA in Theatre -Acting: Personal and Ensemble Acting Skills**
  - **Providing Department:** BFA in Theatre
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  Learning Outcome Description

  Demonstrate personal & ensemble acting skills needed for creative rehearsals and for artistic performances.
2: BFA in Theatre - Acting: Ability to Create Characters  
Providing Department: BFA in Theatre  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate ability to create characters from different styles, periods, and genres.

3: BFA in Theatre - Acting: Speech and Voice Development  
Providing Department: BFA in Theatre  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate clear, articulate, and expressive speech; and a flexible, strong and controlled voice.

4: BFA in Theatre - Acting: Body Control and Stage Movement Skills  
Providing Department: BFA in Theatre  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate a flexible, relaxed, and controlled body trained in basic stage movement disciplines.

5: BFA in Theatre - Acting: Comprehension of Business Procedures  
Providing Department: BFA in Theatre  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate comprehension of the basic business procedures of the actor’s profession.

BS in Dance  

1: BS in Dance: Knowledge and Skills as Competent Dancers  
Providing Department: BS in Dance  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate knowledge and skills as competent dancers consistent with the objectives of the liberal arts degree program.  
Students complete a minimum of 12 semesters of modern dance, ballet, and jazz dance supplemented by electives in other dance styles: pointe, African 2, hip-hop. Students must successfully complete at least two semesters of technique at the 3000-level (proficiency). Proficiency is further demonstrated through successful auditions for faculty and guest repertory works and dance companies. Graduates are proficient in at least one dance style, supplemented by competency in other dance styles.

2: BS in Dance: Ability to Identify and Work Conceptually  
Providing Department: BS in Dance  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Graduates demonstrate the ability to identify and work conceptually with the elements of dance in diverse contexts.  
Students complete the required BS core curriculum of five courses (DNC 1810, DNC 3810, DNC 4910, DNC 5910, and DNC 5998) including an internship and capstone course in the senior year.

3: BS in Dance: Understanding of Processes, Properties and Values  
Providing Department: BS in Dance  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Demonstrate understanding of choreographic processes, aesthetic properties, production values and the ways these shape artistic, social and cultural ideas.  
DNC 2000, DNC 2310, DNC 2400, DNC 2460, and DNC 2500 each include aspects of choreographic processes and aesthetics; DNC 1330, DNC 2410, and DNC 3310 include components of production.
4: BS in Dance: Familiarity with Repertory, Eras, Genres and Practices
Providing Department: BS in Dance
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Develop familiarity with a wide range of repertory, principal eras, genres, and cultural and community practices in dance.

Students complete a minimum of two performance courses earned through participation in dance companies (DNC 5610), touring (DNC 5000), and repertory (DNC 5800). Study of eras, genres and practices is included in DNC 2000, DNC 2310, DNC 3810, and DNC 4910.

5: BS in Dance: Ability to Develop and Defend Critical Evaluations
Providing Department: BS in Dance
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate the ability to develop and defend critical evaluations.

The University General Education program requires that students must successfully complete writing assignments that demonstrate an ability to communicate effectively with specialized or professional audiences. This is formally accomplished under the Writing Intensive Course (DNC 5993) and honed through analytical discussion, writing assignments, and critique in other required dance courses (DNC 1810, DNC 2000, DNC 2310, DNC 3310, DNC 3810, DNC 4910, and DNC 5910).

6: BS in Dance: Fundamental Knowledge of the Body and Kinesiology
Providing Department: BS in Dance
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate a fundamental knowledge of the body and kinesiology as applicable to work in dance and related professions.

Students complete somatic studies in dance kinesiology (DNC 3180) and Pilates mat (DNC 5110). Components of dance science, somatics, therapy, and body systems and approaches are included in DNC 1810 and DNC 4910.

MFA in Theatre

1: MFA in Theatre - Acting: Personal & Ensemble Acting Skills
Providing Department: MFA in Theatre
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate personal & ensemble acting skills needed for creative rehearsals and for artistic performances in a repertory season.

2: MFA in Theatre - Acting: Ability to Create Characters
Providing Department: MFA in Theatre
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate knowledge of and ability to create characters from different styles, periods, and genres.

3: MFA in Theatre - Acting: Speech and Voice Development
Providing Department: MFA in Theatre
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate clear, articulate, and expressive speech; and a flexible, strong and dynamic voice.

4: MFA in Theatre - Acting: Body Control and Stage Movement Skills
Providing Department: MFA in Theatre
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate a flexible, relaxed, and controlled body trained in intermediate and advanced stage movement disciplines.

5: MFA in Theatre - Acting: Comprehension of Business Procedures
Providing Department: MFA in Theatre
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate comprehension of the business procedures of the actor’s profession.
College of Liberal Arts and Sciences

Africana Studies

BA in Africana Studies

1: Learning Outcome 1
Providing Department: BA in Africana Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to identify, discuss, and evaluate selected Black leaders, organizations, and social movements.

2: Learning Outcome 2
Providing Department: BA in Africana Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to identify, discuss, and evaluate selected concepts integral to African American Studies.

3: Learning Outcome 3
Providing Department: BA in Africana Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to identify, discuss, and evaluate selected Black writers, filmmakers, artists, and cultural figures.

Anthropology

BA in Anthropology

1: Cultivating Anthropological Knowledge
Providing Department: BA in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Anthropology majors will form an understanding of the four disciplinary sub-fields and will apply this understanding to specialized knowledge of theories, disciplinary history, and key concepts within these sub-fields.

2: Methods and Skill Building
Providing Department: BA in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Anthropology majors will demonstrate fluency in anthropological methods, oral and written communication, critical thinking, analysis, and teamwork.

3: Engagement and Practice
Providing Department: BA in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Anthropology majors will apply knowledge, skills, and perspectives gained inside the classroom to the local and global community outside the classroom.

MA in Anthropology

1: MA Outcome 1: Theories and Concepts
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate advanced written knowledge of key theories and concepts in the major subfields of anthropology, including the history of the discipline.

2: MA Outcome 2: Methods
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Exhibit high proficiency with the core methods of their subfield(s).

3: MA Outcome 3: Specific Area Mastery
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate written mastery of a specific area of study through intensive study and/or original research.

4: MA Outcome 4: Conferences
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Present scholarly material at an academic conference.

5: MA Outcome 5: Teaching
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Teach introductory anthropology across its multiple subdisciplines.

6: MA Outcome 6: Practicing Anthropology
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Practice anthropology in non-academic settings in a particular area of the discipline.

7: MA Outcome 7: Ethics
Providing Department: MA in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate knowledge of ethical practices when conducting research with human subjects research, engaging with community stakeholders, and presenting academic scholarship.

PhD in Anthropology

1: PhD Outcome 1: Theories and Concepts
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate advanced written knowledge of key theories and concepts in the major subfields of anthropology, including the history of the discipline.

2: PhD Outcome 2: Topic Mastery
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate written and oral mastery of a specific area of study through intensive study and qualifying exams.
3: PhD Outcome 3: Original Research
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Design and put into practice a well-designed original research project that addresses major theoretical issues in a particular area of anthropology.

4: PhD Outcome 4: Ethics
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate knowledge of ethical practices when conducting research with human subjects research, engaging with community stakeholders, and presenting academic scholarship.

5: PhD Outcome 5: Publication
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Produce peer-reviewed journal articles and book chapters in anthropology and/or relevant allied disciplines.

6: PhD Outcome 6: Conferences
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Present scholarly material at peer-reviewed conferences in anthropology and/or in relevant allied disciplines.

7: PhD Outcome 7: Teaching
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Teach general anthropology across its multiple subdisciplines, as well as upper-division courses in a particular subfield.

8: PhD Outcome 8: Practicing Anthropology
Providing Department: PhD in Anthropology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Exhibit practical knowledge and skills appropriate for non-academic career opportunities in their subfield.

Biological Sciences

BA in Biological Sciences

1: Core concepts
Providing Department: BA in Biological Sciences
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to demonstrate an understanding of the core concepts of evolution, biological structure and function, information flow, exchange and storage, pathways and transformations of energy and matter and biological systems.

2: Core competencies
Providing Department: BA in Biological Sciences
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should have “the ability to apply the process of science,” “use quantitative reasoning,” “use modeling and simulation,” “tap into the interdisciplinary nature of science,” “communicate and collaborate with other disciplines” and “understand the relationship between science and society.”
3: Adequate progress  
Providing Department: BA in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Students should be able to progress through the curriculum and graduate in four to six years and move on to employment or advanced study in an area related to the biological sciences.

BS in Biological Sciences

1: Core concepts  
Providing Department: BS in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Students should be able to demonstrate an understanding of the core concepts of evolution, biological structure and function, information flow, exchange and storage, pathways and transformations of energy and matter and biological systems.

2: Core competencies  
Providing Department: BS in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Students should have “the ability to apply the process of science,” “use quantitative reasoning,” “use modeling and simulation,” “tap into the interdisciplinary nature of science,” “communicate and collaborate with other disciplines” and “understand the relationship between science and society.”

3: Adequate progress  
Providing Department: BS in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2015  

Learning Outcome Description  
Students should be able to progress through the curriculum and graduate in four to six years and move on to employment or advanced study in an area related to the biological sciences.

MA in Biological Sciences

1: Learning Outcomes-1  
Providing Department: MA in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2016  

Learning Outcome Description  
Students who are presently in educational fields will attain knowledge and understanding of current advances in biological theory and practice to bring back to their classrooms to enrich their curricula.

2: Learning outcomes-2  
Providing Department: MA in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2016  

Learning Outcome Description  
Students who are interested in progressing into health professional field will enhance their professional resumés and improve their preparedness for future coursework in their preferred programs by demonstrating knowledge and success in graduate-level coursework dealing with advances in cellular, molecular, developmental, and neuro-biology.

3: Learning outcomes-3  
Providing Department: MA in Biological Sciences  
Start: 9/1/2014  
End: 8/31/2016  

Learning Outcome Description  
Students who are interested in administrative or sales careers in biotechnology industries will attain an intricate understanding of molecular biology techniques that can aid them in sales, scientific writing, and patent law.
MS in Biological Sciences

1: Learning outcome-1
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will demonstrate a strong understanding of current state of knowledge in their chosen fields.

2: Learning outcomes-2
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will be proficient in general experimental design for experiments in their fields.

3: Learning outcomes-3
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will demonstrate independence in the execution and trouble-shooting of experimental programs.

4: Learning outcomes-4
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will learn to keep current with published literature to identify significant gaps in the current arena of knowledge in their specific disciplines.

5: Learning outcomes-5
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will propose testable hypotheses and will develop novel experimental designs to test those hypotheses.

6: Learning outcomes-6
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will present research work in written and oral forms as is common and appropriate for their fields of research.

7: Learning outcomes-7
Providing Department: MS in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will present research work in written and oral forms as is common and appropriate for their fields of research.
1: Learning outcome-1
Providing Department: MS in Molecular Biotechnology
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will attain a strong understanding of the structure and functional aspects of prokaryotic and eukaryotic systems and processes that are utilized in RNA, DNA, and protein biotechnologies.

2: Learning outcome-2
Providing Department: MS in Molecular Biotechnology
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will be proficient in general experimental design for experiments in molecular and cellular biology laboratories.

3: Learning outcome-3
Providing Department: MS in Molecular Biotechnology
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will become proficient in the execution and trouble-shooting of experimental programs.

4: Learning outcome-4
Providing Department: MS in Molecular Biotechnology
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will have the skills to seek out, understand, and implement new techniques as they are developed.

5: Learning outcome-5
Providing Department: MS in Molecular Biotechnology
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will present research work in written and oral forms as is common and appropriate for their fields of research.

PhD in Biological Sciences

1: Learning outcome-1
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will demonstrate a strong understanding of current state of knowledge in their chosen fields.

2: Learning outcome-2
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will be proficient in general experimental design for experiments in their fields.

3: Learning outcome-3
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
- Students will demonstrate independence in the execution and trouble-shooting of experimental programs.
4. Learning outcome-4
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016
Learning Outcome Description
• Students will learn to keep current with published literature to identify significant gaps in the current arena of knowledge in their specific disciplines.

5. Learning outcome-5
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016
Learning Outcome Description
• Students will propose testable hypotheses and will develop novel experimental designs to test those hypotheses.

6. Learning outcome-6
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016
Learning Outcome Description
• Students will present research work in written and oral forms as is common and appropriate for their fields of research.

7. Learning outcome-7
Providing Department: PhD in Biological Sciences
Start: 9/1/2014
End: 8/31/2016
Learning Outcome Description
• Students will become independent researchers in Biological Sciences.

Chemistry

BA in Chemistry

1. : Coursework
Providing Department: BA in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Graduates will show competence in the five areas of chemistry (organic, inorganic, analytical, physical and biological). Each area will be assessed individually
   a. One semester general chemistry (CHM 1220)
   b. Full year of organic chemistry (CHM 1240, 2220)
   c. Analytical chemistry (CHM 2280)
   d. Biochemistry, one semester (CHM 5600)
   e. Survey of Physical Chemistry (CHM 5400)
   f. Inorganic Chemistry (CHM 3020)
   g. One advanced elective in any area

BS in Chemistry

1.: Goal 1
Providing Department: BS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates will earn degrees certified by the Committee on Professional Training of the American Chemical Society.

2. : Goal 2
Providing Department: BS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates will show competence in the five areas of chemistry (organic, inorganic, analytical, physical and biological). Each area will be assessed individually
a. One semester general chemistry (CHM 1220)
b. Full year of organic chemistry (CHM 1240, 2220)
c. Analytical chemistry (CHM 2280, 5160)
d. Biochemistry, one semester (CHM 5600)
e. Comprehensive Physical Chemistry (CHM 5420, 5440)
f. Inorganic Chemistry (CHM 3020, 5020*)

i. *CHM 5020 is our senior capstone course, with physical chemistry pre-requisite.

3.: Goal 3
Providing Department: BS in Chemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Graduates will have experience in independent undergraduate research.

BS with a major in Biochemistry and Chemical Biology

1.: Coursework
Providing Department: BS with a major in Biochemistry and Chemical Biology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Graduates will show competence in the five areas of chemistry (biological, organic, inorganic, analytical and physical).

2.: Research
Providing Department: BS with a major in Biochemistry and Chemical Biology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop the analytical and problem solving skills necessary to carry out independent research.

3.: Applications
Providing Department: BS with a major in Biochemistry and Chemical Biology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will learn the applications of chemical concepts and technologies to biological problems.

4.: Sub-speciality
Providing Department: BS with a major in Biochemistry and Chemical Biology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will develop in depth understanding of one the four specialized areas- bioorganic, bioinorganic, bioanalytical and biophysical chemistry.

BS with a major in Chemistry and a concentration in Biochemistry

1. : ACS Certification
Providing Department: BS with a major in Chemistry and a concentration in Biochemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Graduates will earn degrees certified by the Committee on Professional Training of the American Chemical Society.
2.: Coursework
Providing Department: BS with a major in Chemistry and a concentration in Biochemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

1. Graduates will show competence in the five areas of chemistry (organic, inorganic, analytical, physical and biological) with additional emphasis placed on Biochemistry. Each area will be assessed individually
   a. One semester general chemistry (CHM 1220)
   b. Full year of organic chemistry (CHM 1240, 2220)
   c. Analytical chemistry (CHM 2280, 5160)
   d. Biochemistry, two semesters with laboratory (CHM 6610, 6620, 6640)
   e. Biological Physical Chemistry (CHM 5400)
   f. Inorganic Chemistry (CHM 3020, 5020*)
   i. *CHM 5020 is our senior capstone course, with physical chemistry pre-requisite.

3.: Research
Providing Department: BS with a major in Chemistry and a concentration in Biochemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Graduates will have experience in independent undergraduate research.

MA in Chemistry

1.: Goal 1
Providing Department: MA in Chemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Develop advanced proficiency in diverse areas of chemical knowledge

2.: Goal 2
Providing Department: MA in Chemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Familiarity with and the ability to understand the primary and secondary chemical literature

3.: Goal 3
Providing Department: MA in Chemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply chemical problem solving skills to day-to-day situations

4.: Goal 4
Providing Department: MA in Chemistry
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Effectively communicate with diverse audiences regarding chemical subjects

MS in Chemistry
1.: Goal 1
Providing Department: MS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Develop advanced proficiency in diverse areas of chemical knowledge

2.: Goal 2
Providing Department: MS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Familiarity with and the ability to understand the primary and secondary chemical literature

3.: Goal 3
Providing Department: MS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Apply chemical problem solving skills to day-to-day situations

4.: Goal 4
Providing Department: MS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Effectively communicate with diverse audiences regarding chemical subjects

5.: Goal 5
Providing Department: MS in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Knowledge of a specific research problem in their field and a measurable contribution to the creation of new chemical knowledge based on original experimental data collection.

PhD in Chemistry

1.: Learning Outcome
Providing Department: PhD in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Develop advanced proficiency in diverse areas of chemical knowledge and deep master of a sub-discipline

2.: Learning Outcome
Providing Department: PhD in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Attain proficiency in the teaching of chemistry to help perpetuate the discipline

3.: Learning Outcome
Providing Department: PhD in Chemistry
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Effectively use the primary and secondary chemical literature to advance personal understanding of chemistry and to put this knowledge into context such that
4. **Learning Outcome**
   **Providing Department:** PhD in Chemistry
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   Learn to identify important societal problems that chemical knowledge can help to address and then tackle those problems through original research.

5. **Learning Outcome**
   **Providing Department:** PhD in Chemistry
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   To add to the body of chemical knowledge through original research.

6. **Learning Outcome**
   **Providing Department:** PhD in Chemistry
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   Effectively communicate using multiple modalities (written manuscripts, poster presentations, orally, using electronic media, etc) with diverse audiences regarding chemical subjects.

7. **Learning Outcome**
   **Providing Department:** PhD in Chemistry
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   Instill a culture of safety and responsible conduct of research among our students so that they become responsible stewards of the chemistry discipline.

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**Classical and Modern Languages, Literatures, and Cultures**

**B.A. Asian Studies**

1.0: **BA Asian Studies, Learning Outcome 1**
   **Providing Department:** B.A. Asian Studies
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   Understand and communicate in Chinese and/or Japanese languages to expand the students’ intellectual and professional horizons.

2.0: **BA; Asian Studies, Learning Outcome 2**
   **Providing Department:** B.A. Asian Studies
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   Analyze and interpret the literature within the socio-historical contexts of its production and reading to appreciate its function in the inter-subjective communication of information and values.

**B.A. Classics**

1.0: **BA Classics Learning Outcome 1**
   **Providing Department:** B.A. Classics
   **Start:** 9/1/2014
   **End:** 8/31/2015
   **Learning Outcome Description**
   At the completion of their studies, undergraduate students will demonstrate a reading knowledge of Latin and/or Ancient Greek.
2.0: BA Classics Learning Outcome 2  
Providing Department: B.A. Classics  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
At the completion of their studies, undergraduate students will demonstrate a broad knowledge of the civilizations of ancient Greece and Rome.

B.A. German  
1.0: BA German_LO1_Writing  
Providing Department: B.A. German  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students who receive a BA have completed a writing intensive research project, consisting of multiple stages and two drafts, that demonstrates their ability to:

* formulate and support a thesis in extended and well organized formal written discourse  
* discern between primary secondary academic sources and assess and integrate information from those sources them into their own arguments  
* produce written German at the advanced ACTFL level or the B2-C1 level of the CEFR

2.0: BA German_LO2_Presentational Speaking  
Providing Department: B.A. German  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students who receive a BA in German will demonstrate the ability to deliver an organized presentation, prepared in multiple stages, that is appropriate to the audience about course-related academic or professional topics. In so doing, they will demonstrate a clear understanding of the differences between effective oral and written presentations. Their presentations will effectively summarize and analyze materials for a listening audience and make effective use of visual aids and technology. They will demonstrate the attainment of presentational speaking skills German at the advanced ACTFL level or the B2-C1 level of the CEFR.

B.A. Near Eastern Languages  
1.0: BA_NEAR EASTERN LANGUAGES_learning outcome 1  
Providing Department: B.A. Near Eastern Languages  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Understand and communicate in a critical Near Eastern language, to expand their intellectual and professional networks.

2.0: NEAR EASTERN LANGUAGES_Learning outcome_2  
Providing Department: B.A. Near Eastern Languages  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Analyze and interpret oral and written literatures within the socio-historical contexts of their production, to appreciate their function in the inter-subjective communication of information and values that have practical impacts on intercultural relations today.

B.A. Near Eastern Studies  
1.0: BA_NEAR EASTERN STUDIES_learning outcome 1  
Providing Department: B.A. Near Eastern Studies  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Understand and communicate in a critical Near Eastern language, to expand their intellectual and professional networks.

2.0: BA_NEAR EASTERN STUDIES_Learning outcome_2  
Providing Department: B.A. Near Eastern Studies  
Start: 9/1/2014  
End: 8/31/2015
Learning Outcome Description
Analyze and interpret oral and written literatures within the socio-historical contexts of their production, to appreciate their function in the inter-subjective communication of information and values that have practical impacts on intercultural relations today.

B.A. Romance Languages

1.0: BA Romance Languages LO1 Oral Proficiency
Providing Department: B.A. Romance Languages
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
LO1: Students should be able to communicate in oral form complex ideas in the target language with accurate pronunciation.

2.0: BA Romance Languages LO2 Literary Competency
Providing Department: B.A. Romance Languages
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
LO2: Students should show familiarity with major writers and literary trends of the target language.

B.A. Slavic Studies

1: Acquisition of Essentials of Cultural Competency
Providing Department: B.A. Slavic Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Student is able to make meaningful comments about the most significant products, practices, and perspectives of Polish or Russian culture, and to articulate differences between his or her own culture and the target culture.
Student also demonstrates knowledge of cultural practices that enable him or her to function effectively in cross-cultural situations.

2: Achieving Language-Proficiency Goals in Russian and Polish
Providing Department: B.A. Slavic Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description:
Speaking:
Intermediate High

Intermediate High speakers are able to converse with ease and confidence when dealing with the routine tasks and social situations of the Intermediate level. They are able to handle successfully uncomplicated tasks and social situations requiring an exchange of basic information related to their work, school, recreation, particular interests, and areas of competence.

Intermediate High speakers can handle a substantial number of tasks associated with the Advanced level, but they are unable to sustain performance of all of these tasks all of the time. Intermediate High speakers can narrate and describe in all major time frames using connected discourse of paragraph length, but not all the time. Typically, when Intermediate High speakers attempt to perform Advanced-level tasks, their speech exhibits one or more features of breakdown, such as the failure to carry out fully the narration or description in the appropriate major time frame, an inability to maintain paragraph-length discourse, or a reduction in breadth and appropriateness of vocabulary.

Intermediate High speakers can generally be understood by native speakers unaccustomed to dealing with non-natives, although interference from another language may be evident (e.g., use of code-switching, false cognates, literal translations), and a pattern of gaps in communication may occur.

Writing:
Advanced Low

Writers at the Advanced Low sublevel are able to meet basic work and/or academic writing needs. They demonstrate the ability to narrate and describe in major time frames with some control of aspect. They are able to compose simple summaries on familiar topics. Advanced Low writers are able to combine and link sentences into texts of paragraph length and structure. Their writing, while adequate to satisfy the criteria of the Advanced level, may not be substantive. Writers at the Advanced Low sublevel demonstrate the ability to incorporate a limited number of cohesive devices, and may resort to some redundancy and awkward repetition. They rely on patterns of oral discourse and the writing style of their first language. These writers demonstrate minimal control of common structures and vocabulary associated with the Advanced level. Their writing is understood by natives not accustomed to the writing of non-natives, although some additional effort may be required in the reading of the text. When attempting to perform functions at the Superior level, their writing will deteriorate significantly.

Listening:
Advanced Low

At the Advanced Low sublevel, listeners are able to understand short conventional narrative and descriptive texts with a clear underlying structure though their comprehension may be uneven. The listener understands the main facts and some supporting details. Comprehension may often derive primarily from situational
Reading:
Advanced Low

At the Advanced Low sublevel, readers are able to understand conventional narrative and descriptive texts with a clear underlying structure though their comprehension may be uneven. These texts predominantly contain high-frequency vocabulary and structures. Readers understand the main ideas and some supporting details. Comprehension may often derive primarily from situational and subject-matter knowledge. Readers at this level will be challenged to comprehend more complex texts.

M.A. Classics

1: MA Classics Learning Outcome 1
Providing Department: M.A. Classics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
At the completion of their studies, graduate students will demonstrate a higher level of proficiency of Latin and/or Ancient Greek.

2: MA Classics Learning Outcome 2
Providing Department: M.A. Classics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
At the completion of their studies, graduate students will demonstrate an enhanced knowledge and understanding of the civilizations of Ancient Greece and Rome.

M.A. German

1: LO 1, Writing
Providing Department: M.A. German
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
Students who receive a MA can write research papers that demonstrates their ability to:

1. formulate and support a thesis
2. support arguments with a range of primary and secondary sources
3. organize content clearly and according to North American academic style
4. make persuasive arguments
5. make some original arguments
6. use the MLA style sheet for bibliography and citations
7. write in German at the advanced high to superior level

1.1: Writing
Providing Department: M.A. German
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students who receive a MA can complete a writing intensive research project that demonstrates their ability to

* formulate and support a thesis in extended and well organized formal written discourse suitable for submission to professional conferences and graduate student journals
* discern between primary and secondary academic sources
* demonstrate the ability to identify and find those sources in various databases
* assess and integrate information from those sources into their own arguments
* follow MLA style in the citation of their sources (endnotes, footnotes, bibliography)

* write in German at the advanced-high ACTFL level

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1.2: Presentational Speaking  
**Providing Department:** M.A. German  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description:**  
Students who receive an MA in German will demonstrate the ability to deliver an organized presentation on a scholarly subject that includes summarizing, assessing, and responding to current research. Presentation is in German at the advanced-high ACTFL level.

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2: LO 2, Presentational Speaking  
**Providing Department:** M.A. German  
**Start:** 9/1/2014  
**End:** 8/31/2016  
**Learning Outcome Description:**  
Students who receive an MA in German will demonstrate the ability to deliver an organized presentation on a scholarly subject that is appropriate to the audience. In so doing, they will demonstrate a clear understanding of the differences between effective oral and written presentations. Their presentations will effectively summarize and analyze materials for a listening audience and make effective use of visual aids and technology. They will demonstrate the attainment of presentational speaking skills German at the advanced high to superior ACTFL level.

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M.A. Near Eastern Languages

1.0: MA NEAR EASTERN LANGUAGES, learning outcome 1  
**Providing Department:** M.A. Near Eastern Languages  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description:**  
Understand and communicate in a critical Near Eastern language, to expand their intellectual and professional networks.

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2.0: MA; NEAR EASTERN LANGUAGES  
**Providing Department:** M.A. Near Eastern Languages  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description:**  
Analyze and interpret oral and written literatures within the socio-historical contexts of their production, to appreciate their function in the inter-subjective communication of information and values that have practical impacts on intercultural relations today.

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M.A. Romance Languages

1.0: MA Romance Languages,LO1, Advanced communication  
**Providing Department:** M.A. Romance Languages  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description:**  
Students should be able communicate in the target language at advanced levels.

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2.0: MA Romance Languages,LO2, Critical thinking/analysis  
**Providing Department:** M.A. Romance Languages  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description:**  
Students should be able to critically analyze linguistic principles, regional cultures, literary and cultural history, and critical theories and approaches.
MA in Language Learning

1.0: MALL Outcome 1. Summarize theory and research
Providing Department: MA in Language Learning
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students accurately summarize theory and research in second language acquisition and foreign language pedagogy

2.0: MALL Outcome 2. Evaluation of Existing Pedagogical Materials
Providing Department: MA in Language Learning
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students apply theory and research to the evaluation of pedagogical materials and activities.

3.0: MALL Outcome 3. Create pedagogically sound materials
Providing Department: MA in Language Learning
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students develop/create pedagogically sound materials. (Pedagogically sound = student appropriately applies theory and research to the target teaching context)

4: MALL Outcome 4. Compare concepts
Providing Department: MA in Language Learning
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students explain concepts related to foreign language teaching and learning.

PhD in Modern Languages

1.0: PhDModernLanguages_LO1_DisciplineKnowledge
Providing Department: PhD in Modern Languages
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Students will acquire advanced, requisite knowledge of their disciplines based on course work conducted largely in the target language.

2.0: _ModernLanguages_LO2_CriticalThinkingOriginalArguments
Providing Department: PhD in Modern Languages
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
2. Students will develop critical thinking skills from an interdisciplinary perspective that enable them to create original arguments in their approaches to literature, cultures, theory, and pedagogy appropriate to their Plan of Work.

Communication Sciences and Disorders

Learning Outcome 3: Describe and Evaluate the Effects of Language and Culture on Normal and Disordered Communication Skills
Providing Department: Communication Sciences and Disorders
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student will be able to describe and evaluate the effects of language and culture on normal and disordered communication skills

BA in Communication Sciences and Disorders
Learning Outcome 3: Describe and Evaluate the Effects of Language and Culture on Normal and Disordered Communication Skills
Providing Department: BA in Communication Sciences and Disorders
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will be able to describe and evaluate the effects of language and culture on normal and disordered communication skills.

Learning Outcome 7: Demonstrate General Academic Skills Appropriate for Introductory Clinical Experience and Graduate Coursework
Providing Department: BA in Communication Sciences and Disorders
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will demonstrate general academic skills (including computer, research and study skills) appropriate for introductory clinical experience and graduate coursework.

Doctor of Audiology

1: General academic skills
Providing Department: Doctor of Audiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1: Demonstrate academic skills (including computer, research and study skills) in the areas of Hearing and Diagnostics appropriate for Clinical Experience.

2: Language and Culture
Providing Department: Doctor of Audiology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2:
Administer clinically appropriate and culturally sensitive assessment measures for pure-tone audiometry, immittance testing, and clinical masking.

MA with a major in speech-language pathology

1: Knowledge
Providing Department: MA with a major in speech-language pathology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1: Demonstrate Academic Skills in the areas of Communication Sciences and Disorders appropriate for Clinical Experience.

2: Skills
Providing Department: MA with a major in speech-language pathology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2: Possess foundation for diagnosis and treatment for basic human communication and swallowing processes.

PhD with a major in Communication Sciences and Disorders

LO 1: Knowledge
Providing Department: PhD with a major in Communication Sciences and Disorders
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will demonstrate knowledge of the research content area sufficient to conduct independent research and teach at the university level.
LO2: Research Skills
Providing Department: PhD with a major in Communication Sciences and Disorders
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will demonstrate research skills sufficient for conducting independent research.

Computer Science
BA in Computer Science

LO1: BA Computer Science LO 1_Apply Principles
Providing Department: BA in Computer Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to apply the principles of Computer Science, Algorithmic Principles, Mathematics, and scientific investigation to solve real-world problems appropriate to the discipline as part of a system development team.

LO2: BA Computer Science LO 2_Lifelong Learning Skills
Providing Department: BA in Computer Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will have lifelong learning skills, which will allow them to successfully adapt to evolving technologies throughout their professional careers.

LO3: BA Computer Science LO 3_Function Ethically and Responsibly
Providing Department: BA in Computer Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to function ethically and responsibly, and are conscious of ethical, social, global, legal, security and professional issues related to computing.

Bachelor of Arts in Information Systems Technology

LO1: BA IST_LO1_Apply Principles
Providing Department: Bachelor of Arts in Information Systems Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will learn to develop their programming skills in order to allow them to apply these learned techniques to analyze an information technology problem, evaluate possible solutions, and create a solution as part of an organizational development team.

LO2: BA IST_LO2_Lifelong Learning Skills
Providing Department: Bachelor of Arts in Information Systems Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will have lifelong learning skills, which will allow them to successfully adapt to evolving technologies throughout their professional careers.

LO3: BA IST_LO3_Function Ethically and Responsibly
Providing Department: Bachelor of Arts in Information Systems Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to function ethically and responsibly, and are conscious of ethical, social, global, legal, security and professional issues related to computing.

Criminal Justice

BS in Criminal Justice
<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Providing Department: BS in Criminal Justice</th>
<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Learning Outcome</td>
<td>Students can explain the general nature of crime and criminality.</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Providing Department: BS in Criminal Justice</th>
<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>2: Learning Outcome</td>
<td>Students can identify the separate components of the criminal justice system and understand the interrelationships between these components.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>3: Learning Outcome</td>
<td>Students can describe the major theoretical explanations of crime and criminality.</td>
<td></td>
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</tbody>
</table>

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<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>4: Learning Outcome</td>
<td>Students can describe the scientific method typically used in the social sciences.</td>
<td></td>
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</table>

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<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>5: Learning Outcome</td>
<td>Students can describe Constitutional rights and judicial procedure.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Providing Department: MS in Criminal Justice</th>
<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: Learning Outcome</td>
<td>Students will develop knowledge of theories of crime and criminality, research methodology, and the empirical validity of criminal justice theories.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Learning Outcome</th>
<th>Providing Department: MS in Criminal Justice</th>
<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>2: Learning Outcome</td>
<td>Students will demonstrate comprehension on a particular criminal justice topic by describing key items and issues presented in research and educational material, presenting material, both written and verbal, in a clear and concise manner, and synthesizing research.</td>
<td></td>
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</tbody>
</table>

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<tr>
<th>Learning Outcome</th>
<th>Providing Department: MS in Criminal Justice</th>
<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>3: Learning Outcome</td>
<td>Students will develop skills in analysis and application in criminal justice such that they can locate and interpret research evidence, design a research project to adequately answer a research question or hypothesis, analyze data and interpret empirical findings, and develop policy solutions by synthesizing existing research with their own observations and ideas.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Learning Outcome
Providing Department: MS in Criminal Justice
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skills in integration and synthesis in criminal justice by conducting original research that addresses a gap in the research and drawing conclusions from that research related to theory and/or policy.

Economics

BA in Economics

1: Learning Outcome 1 for B.A. in Economics
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
Proposed Learning Outcomes and Outcome Assessments for B.A. in Economics

Learning Outcome 1: Students are expected to demonstrate an ability to analyze real-world economics problems using mathematical, graphical and statistical techniques.

Outcome Assessment 1.1: Students will demonstrate their ability to analyze economic problems by successfully completing the required economics courses.

2: Learning Outcome for Economics 2010
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
ECO 2010
Supply, demand, price at the level of the firm and industry; business institutions and their operation; determinants of wage and salary levels, interest rates, rent, profits, income distribution; public policy in relation to business and labor.

The student will learn the basics of microeconomic theory. Topics include markets supply and demand; labor market; market efficiency and its application; government intervention in specific markets; i.e., the impact of taxation. The course will also cover market structure and compares competitive markets to monopoly.

3: Learning Outcome for Economics 2020
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
ECO 2020
Determination of national income, consumption and saving, and investment; money, banking and the Federal Reserve; inflation and unemployment; monetary and fiscal policy; economic growth and productivity; the international sector.

The student will learn the basics of macroeconomic theory. Topics include determination of national income, consumption and saving, and investment; inflation and unemployment; money and interest rates; monetary and fiscal policy. This course may cover the following topics: economic growth and productivity; the international sector.

4: Learning Outcome for Economics 4000
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
ECO 4000
Students will be able to analyze economic problems using supply and demand techniques, using both diagrams and algebra.

Students will be able to analyze consumer behavior using utility functions, indifference curves and budget lines, using diagrams and sometimes algebra.

Students will be able to do this in a variety of contexts, including the basic model, labor-leisure choice, intertemporal consumption, and general equilibrium theory.

Students will be able to analyze producer behavior using production functions, isoquants and cost curves, using diagrams and sometimes algebra.

Students will be able to integrate the techniques above to analyze problems in market structure (competitive markets, monopoly, monopsony, etc.) and government intervention in the economy.
5: Learning Outcome for Economics 4050
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
ECO 4050 (formerly 5050)
Theory of national income determination. National output and income, saving and capital formation.
The student will learn theory of national income determination, economic growth, inflation, and unemployment. Effects of monetary and fiscal policy are studied using numerical examples. Emphasis is placed on the difference between long-run and short-run effects. All the basic concepts of macroeconomic theory are covered in this course.

6: Learning Outcome for Economics 4100
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
ECO 4100 (formerly 5100)
Preliminary data analysis; simple regression; multiple regression; probability and statistics; inference in multiple regression; generalized regression.
The student will learn basics of statistics and econometrics. Topics include the properties of data and the clear definition of descriptive statistics; difference between the sample and the population; estimation of population moments; basics of probability theory. Then, the student will learn the concepts and methods of hypothesis testing. Finally, the instructor will teach simple linear regression and multiple linear regression models that are often used not only in academic research but also in business and finance.

7: Learning Outcome for Economics 5300
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Econ. 5300
Students successfully completing this course will be able to
? Identify the principal reasons that countries trade with each other
? Predict the likely effects of trade, including the effect on prices, levels of production, and consumer welfare in each country
? Predict the likely effects of worker migration and financial capital movements between countries
? Identify the major instruments of government trade policy and their effects
? Describe important recent events and trends related to international trade
? Describe the chief arguments in favor of liberalized international trade, and some arguments against liberalized trade.

8: Learning Outcome for Economics 5520
Providing Department: BA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. To learn and apply the concepts and methods of state and local public finance in depth.
2. To learn the historical context of state and local public finance, the connections to other fields of study, and the role of ethical values in decisions and policymaking.
3. To carry out independent research and communicate findings related to state and local public finance to students, faculty, and others.
4. To interpret critically and communicate quantitative and verbal information about state and local public finance.
5. To learn how state and local public finance can be applied to issues of contemporary concern.
6. To acquire skills and interests which enable students to be lifelong learners and contributing members of their communities, including critical thinking, clear and thoughtful communication, and honest and open inquiry.
**Learning Outcome Description**

- Students will be able to analyze public finance problems using a variety of different techniques.
- Students will be able to analyze consumer behavior in public finance problems, using utility functions, indifference curves and (linear or nonlinear) budget lines, using diagrams and algebra.
- Students will be able to analyze market equilibrium in public finance problems, using supply and demand techniques, using diagrams and algebra.
- Students will be able to examine efficiency (including differences between equilibrium outcomes and socially optimal outcomes) in public finance problems.
**1: Learning Outcome for Economics 6410**
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Eco 7410/6410 Economics of Human Resources

Upon successful completion of this course, students will be able to do the following:

- Apply microeconomic theory to individual behavior regarding labor, education, marriage, fertility, and related outcomes.
- Evaluate public policies, workplace policies, and other ‘natural experiments’, and predict some of their impacts on labor force outcomes and demographic outcomes.
- Critique both empirical and theoretical aspects of empirical research papers in economics.
- Design and plan a theoretically-based empirical research project.

**2: Learning Outcome 2 for M.A. Program**
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
2. One field specialization in Industrial Organization, International Trade and Finance, Labor and Human Resources, or Health Economics.

**2: Learning Outcome for Economics 6520**
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. To learn and apply the concepts and methods of state and local public finance in depth.
2. To learn the historical context of state and local public finance, the connections to other fields of study, and the role of ethical values in decisions and policymaking.
3. To carry out independent research and communicate findings related to state and local public finance to students, faculty, and others.
4. To interpret critically and communicate quantitative and verbal information about state and local public finance.
5. To learn how state and local public finance can be applied to issues of contemporary concern.
6. To acquire skills and interests which enable students to be lifelong learners and contributing members of their communities, including critical thinking, clear and thoughtful communication, and honest and open inquiry.

**3: Learning Outcome 3 for M.A. Program**
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
3. In special cases, the M.A. student may choose a concentration in Advanced Microeconomics or Macroeconomics.

**3: Learning Outcome for Economics 6510**
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
** Students will be able to analyze public finance problems using a variety of different techniques.
** Students will be able to analyze consumer behavior in public finance problems, using utility functions, indifference curves and (linear or nonlinear) budget lines, using diagrams and algebra.
** Students will be able to analyze market equilibrium in public finance problems, using supply and demand techniques, using diagrams and algebra.
** Students will be able to examine efficiency (including differences between equilibrium outcomes and socially optimal outcomes) in public finance problems.
4: Learning Outcome 4 for M.A. Program
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
4. The M.A. program should provide Preparation for careers in research organizations, industry, and public service.

4: Learning Outcome for Economics 6100
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon completion of this course, successful students will be able to

- Conduct Ordinary Least Square (OLS) regression for linear models, and analyze the estimation and inference results;
- Evaluate the properties for OLS under different circumstances;
- Identify endogeneity issues and conduct Instrument Variable (IV) estimation when necessary;
- Apply Logit and Probit models to binary choice models;
- Identify the differences among corner solutions, censoring and truncations in samples and conduct suitable estimations;
- Assess whether a time series is stationary and conduct appropriate estimation and inferences.

5: Learning Outcome for Economics 6000
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
** You should learn how to analyze various economic situations that are stated in the form of microeconomics problems.

** You should learn to use graphical analysis in analyzing problems.

** You should learn to apply pre-calculus mathematical analysis in analyzing problems.

** You should learn to apply various calculus-based techniques (including ordinary derivatives, partial derivatives and Lagrangians) in analyzing problems.

6: Learning Outcome for Economics 6210
Providing Department: MA in Economics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The learning outcomes here are similar to those for ECO 5210. Successful students here will be able to think at a higher level of abstraction, express ideas with greater clarity, and write analyses with greater rigor.

The successful student will be able to apply economics to four issues of industrial organization: (1) how price, quality, and variety get determined in a market; (2) how social welfare depends on these features of a market; (3) how public policies toward industry affect social welfare; (4) how new fields such as behavioral economics and neuroeconomics have contributed to our understanding of market behavior.

PhD in Economics

1: Learning Outcome 1 for Ph.D. Program
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
1. The student should acquire a solid foundation in economic theory and quantitative methods.

2: Learning Outcome 2 for Ph.D. Program
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
2. The student will choose two or more field specializations from the following: Industrial Organization, International, Labor, Health and Health Care, and Advanced Macroeconomics; in preparation for careers in universities, research organizations, industry, and financial institutions.

9: Learning Outcome for Economics 7200
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016
Learning Outcome Description

ECO 7200 Industrial Organization I

The successful student will know the literature on three fundamental issues of industrial organization: why firms direct resource allocation when prices could do the same thing, how a firm determines its boundary and how a firm organizes its activities. Beyond that, the successful student can do research on any of the following issues of markets: managerialism, fragility, contagion, leverage, and bubbles. The successful student is conversant in antitrust case history and can conduct economic analyses for parties involved in antitrust litigation.

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10: Learning Outcome for Economics 7021
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
Upon completion of this course, successful students will be able to

- Define sets and their Cartesian products and apply basic operations on sets;
- Define various spaces and characterize their properties;
- Use distribution functions to calculate moments, probabilities and conditional probabilities;
- Identify the commonly used distributions and derive their properties;
- Derive limiting distributions for a sequence of random variables and characterize their properties;
- Apply Maximum Principle to solve Optimal Control problems;
- Derive Value Function and use Bellman Equation to solve Dynamic Programming problems.

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11: Learning Outcome for Economics 7120
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
Upon completion of this course, successful students will be able to

- Conduct Generalized Method of Moments (GMM) estimation and inferences;
- Conduct time series analysis for stationary and nonstationary, univariate and multivariate data;
- Measure, model, estimate and forecast volatility;
- Estimate binary choice models;
- Identify sample selection problems and conduct censored or truncated regression analysis.

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12: Learning Outcome for Economics 7020
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description

** You should learn how to analyze many different types of mathematical problems.

** You should learn to analyze some kinds of economics problems (although this is much less important than learning the mathematics).

** After taking this course, you should be prepared (from a mathematical point of view) to take most of our Ph.D.-level classes in economics.

** After taking this course and ECO 7021, you should be prepared (from a mathematical point of view) to take all of our Ph.D.-level classes in economics.

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13: Learning Outcome for Economics 7060
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
Detailed specifications of macroeconomic models; Interpretation of empirical macroeconomic models. Students who take this course will be able to understand the detailed specification of macroeconomic models. The theories of overlapping generations model, aggregate consumption, investment, unemployment, and nominal and real rigidities are covered. Students will be able to read and interpret the empirical literature on macroeconomic issues.

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14: Learning Outcome for Economics 7100
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
By the end of the course, the students will...
be able to understand the fundamental concepts and techniques in econometric analysis;
be able to construct valid econometric models based on sound hypotheses;
be able to apply linear regression analysis to real world problems and primary datasets;
be able to identify and solve a number of common problems in linear regression estimation;
be able to critically read and understand journal articles that use methods introduced in the course.

15: Learning Outcome for Economics 7110
Providing Department: PhD in Economics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
by the end of the course, the students will

be able to understand the theoretical properties of various econometric estimation and testing procedures;
be able to apply different mathematical, statistical and graphical techniques appropriately;
be able to conduct empirical research at an advanced level using modern econometrics techniques;
be able to critically interpret and analyze the regression results in a written report.

English

BA in English

1: Reading
Providing Department: BA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
READING: Students will be able to describe, explicate, analyze, comprehend, and explain literary, media, and/or rhetorical works.

2: Writing
Providing Department: BA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WRITING: Students will be able to write logical and compelling essays that demonstrate fluency in close reading, clarity in argumentation, and sophistication in critical thinking, reflecting broad knowledge of a range of literary and cultural topics and methods. (NB: By “sophistication,” we mean nuance, complexity, and reflexivity.)

3: Research
Providing Department: BA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
RESEARCH: Students will be able to search for, identify, and evaluate pertinent primary and secondary sources, in both print and digital formats; identify, define, and use field-appropriate research methods as well as theoretical and interpretive frames; and integrate, with appropriate citation, sources, methods, and theories into original arguments.

4: Content Knowledge
Providing Department: BA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
CONTENT KNOWLEDGE: Students will be able to demonstrate familiarity with literary and cultural production from a range of communities and cultures; to make connections among diverse historical eras, genres, styles, forms, theories, and techniques; and to situate works within literary, historical, and cultural contexts.

BA in Film Studies

1: Analysis
Providing Department: BA in Film Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to describe, explicate, comprehend, and explain moving image (and other) media, employing methods of formal, structural, theoretical, historical, technical, and cultural analysis.
2: Writing  
Providing Department: BA in Film Studies  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to write logical and compelling essays that demonstrate fluency in analysis, clarity in argumentation, and sophistication in critical thinking, reflecting broad knowledge of topics and methods in cinema and media studies. (NB: sophistication connotes nuance, complexity, and reflexivity)

3: Research  
Providing Department: BA in Film Studies  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to search for, identify, and evaluate pertinent scholarly sources in both print and digital formats; to identify, define, and use field-appropriate research methods as well as theoretical and interpretive frames; and to integrate, with appropriate citation, sources, methods, and theories into original arguments.

4: Content Knowledge  
Providing Department: BA in Film Studies  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will be able to demonstrate familiarity with film and media production from a range of historical periods, national cinemas, communities, and cultures; to make connections among diverse historical eras, geographical locations, genres, styles, forms, techniques, and media; to explain and deploy major positions in the history of classical and contemporary film theory; and to situate works within economic, social, technical, and cultural contexts and systems.

Composition  
1: Analyze occasions for writing  
Providing Department: Composition  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Produce writing that demonstrates the ability to identify, describe, and analyze various occasions for writing, individual texts, genres, conventions, and audiences, from a rhetorical perspective.

2: Produce extended writing project  
Providing Department: Composition  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Produce an extended writing project that uses research methods and research genres to explore a topic applicable to the course and that draws substantively on concepts from primary and/or secondary sources.

3: Use a flexible writing process  
Providing Department: Composition  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Produce writing that shows use of a flexible writing process (generating ideas, drafting, substantive revision, and editing) and shows the ability to adapt this process for different writing situations and tasks.

Basic Writing (ENG 1010)  
1: Learning Outcome #1-Reading  
Providing Department: Basic Writing (ENG 1010)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
- Use effective reading strategies, such as annotation, to explain, paraphrase, and summarize college-level material.  
- Analyze or break down college-level reading material in order to identify key ideas, passages, or details that support broader claims.
2: Learning Outcome #2 - Writing
Providing Department: Basic Writing (ENG 1010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Plan and compose a well-organized thesis-driven text that responds to college-level material and is supported by relevant and sufficient evidence.
- Use a flexible revision process that incorporates feedback to rewrite multiple drafts of a text for clarity of argument, organization, support, and rhetorical situation (audience, context, and purpose).
- Use an editing process that appropriately applies conventions of language use, including standard academic English, to create prose relatively free of errors that interfere with meaning (e.g. errors in sentence structure, grammar, punctuation, citation style, etc.).

3: Learning Outcome #3 - Revision
Providing Department: Basic Writing (ENG 1010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Generate multiple drafts and revise them by providing and responding to feedback from peers and your instructor. Bring attention to all issues of clarity including grammar, organization, and logical progression of ideas.

4: Learning Outcome #4 - Reflection
Providing Department: Basic Writing (ENG 1010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Use reflective writing to evaluate the writing process and drafts of a text in order to make appropriate revisions.
- Use reflective writing to assess the reading and writing practices in ENG 1010 in order to develop and demonstrate awareness of how the course learning outcomes are being met.

5: Learning Outcome #5 - Technology Use
Providing Department: Basic Writing (ENG 1010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Navigate institutional web-based interfaces, such as library databases and Blackboard Learn™, to find and access college-level material.
- Use computer-based composition technologies, including word processing software (e.g. Microsoft Word, PowerPoint) to compose well-formatted texts.
- Use software to read and annotate published college-level material and texts authored by students in ENG 1010.

Intermediate Writing (ENG 3010)

1: Learning Outcome #1 - Write
Providing Department: Intermediate Writing (ENG 3010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use a flexible writing process and varied technologies to produce texts that address the expectations of the student’s disciplinary or professional discourse community in terms of claims, evidence, organization, format, style, rhetorical situation, strategies, and effects by drawing on an explicit understanding of the genre(s) being composed.

2: Learning Outcome #2 - Read
Providing Department: Intermediate Writing (ENG 3010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze genres from the student’s discipline or profession, including their associated discourse community, audience(s), rhetorical situations, purposes, and strategies.

3: Learning Outcome #3 - Research
Providing Department: Intermediate Writing (ENG 3010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Write research genres, use research methods, and conduct primary and secondary research to produce an extended research project relevant to the student’s discipline or profession.
4: Learning Outcome #4-Reflection
Providing Department: Intermediate Writing (ENG 3010)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use reflective writing to describe developing knowledge about writing (especially writing in one’s discipline or profession) and about oneself as a writer (including one’s ability to plan, monitor, and evaluate one’s writing process and texts).

Introductory College Writing (ENG 1020)

1: Learning Outcome #1-Writing
Providing Department: Introductory College Writing (ENG 1020)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Write effectively for various rhetorical situations (considering elements such as genre, context, discourse community, claims, evidence, organization, style, rhetorical strategies, and persuasive effect), using a flexible writing process and varied technologies.

2: Learning Outcome #2-Reading
Providing Department: Introductory College Writing (ENG 1020)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use analytical and critical strategies to read complex texts in a variety of media, and to identify and evaluate elements of the rhetorical situation (including those listed above).

3: Learning Outcome #3-Researching
Providing Department: Introductory College Writing (ENG 1020)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Conduct research by finding and evaluating print, electronic, and other sources; generate information and ideas from research; and appropriately integrate material from sources.

4: Learning Outcome #4-Reflecting
Providing Department: Introductory College Writing (ENG 1020)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use reflection to make choices and changes in both the composing process and products in this course and to explain how you will use skills you have learned to approach unfamiliar writing tasks.

Technical Writing I: Reports (ENG 3050)

1: Learning Outcome #1-Reading
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Read, analyze and evaluate the design of technical documents, including text, visuals (graphics, illustrations, etc.), format, usability, citation, documentation, and mechanics.

2: Learning Outcome #2-Analyzing Audience
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze the audience(s) and purpose(s) for technical communication assignments.

3: Learning Outcome #3-Conducting Research
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Conduct primary and secondary research in support of designing technical documents, designing primary research and finding and evaluating print and electronic sources.

4: Learning Outcome #4-Writing Effectively
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Write effectively in standard genres of technical writing, including summaries, letters, resumés, memos, instructions, user test reports, and technical reports.

5: Learning Outcome #5-Writing Process
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Write using a flexible writing process that includes generating and organizing ideas, writing, revising, providing and responding to feedback in multiple drafts, formatting, editing, documenting, and proofreading.

6: Learning Outcome #6-Grammar, Mechanics, and Style
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Use appropriate grammar, mechanics, and style for formal and informal technical documents, including standard conventions of citation and documentation to avoid plagiarism.

7: Learning Outcome #7-Using Technology
Providing Department: Technical Writing I: Reports (ENG 3050)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Make productive use of current technologies for reading, researching, writing, and designing technical documents.

Technical Writing II: Presentations (ENG 3060)

1: Learning Outcome #1-Reading
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Read/listen, analyze and evaluate the design of technical proposals and presentations, including text, slides, visuals (graphics, illustrations, etc.), format, and mechanics.

2: Learning Outcome #2-Analyzing Audience
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Analyze the audience(s) and purpose(s) for technical presentation assignments.

3: Learning Outcome #3-Designing Presentations
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Design presentations using a collaborative process that includes coordinating tasks and schedules within a team, developing a flexible process of generating and organizing information and ideas, writing and designing, providing and responding to feedback, formatting, and editing and proofreading for mechanics.
4: Learning Outcome #4-Conducting Research
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Conduct primary and secondary research in support of developing technical proposals and presentations, designing primary research and finding and evaluating print and electronic sources.

5: Learning Outcome #5-Designing Documents
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Design and deliver effective documents and presentations in standard genres of proposal writing, including informative summaries, oral briefings, needs assessments, progress reports, and formal proposals.

6: Learning Outcome #6-Presentation Skills
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective technical presentations skills for multiple audiences.

7: Learning Outcome #7-Using Technology
Providing Department: Technical Writing II: Presentations (ENG 3060)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Make productive use of current technologies for collaborative teamwork and for designing proposals and presentations.

MA in English

A.1: Demonstrate broad knowledge of their field in English Studies.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan A learning outcomes pertain to the Plan A Thesis track for the M.A. in English.

A.2: Conduct scholarly and creative work in an ethical manner, consistent with professional standards.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan A learning outcomes pertain to the Plan A Thesis track for the M.A. in English.

A.3: Create an original work or an original body of work of aesthetic value.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan A learning outcomes pertain to the Plan A Thesis track for the M.A. in English.

B.1: Demonstrate broad knowledge of their field in English Studies.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan B learning outcomes pertain to the Plan B Essay track for the M.A. in English.
B.2: Conduct scholarly work in an ethic
al manner, consistent with professional standards.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan B learning outcomes pertain to the Plan B Essay track for the M.A. in English.

B.3: Create scholarly work that demonstrates fluency and skill in the critical analysis of literature, media, culture, and/or rhetoric & composition.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan B learning outcomes pertain to the Plan B Essay track for the M.A. in English.

C.1: Demonstrate broad knowledge of their field in English Studies
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan C learning outcomes pertain to the Plan C Portfolio track for the M.A. in English.

C.2: Conduct scholarly and creative work in an ethical manner, consistent will professional standards.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan C learning outcomes pertain to the Plan C Portfolio track for the M.A. in English.

C.3: Create scholarly work that demonstrates fluency and skill in the critical analysis of literature, media, culture, and/or rhetoric & composition.
Providing Department: MA in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Plan C learning outcomes pertain to the Plan C Portfolio track for the M.A. in English.

PhD in English

1: Demonstrate proficiency in their field.
Providing Department: PhD in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate proficiency in their field.

2: Conduct scholarly and professional activities in an ethical manner.
Providing Department: PhD in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Conduct scholarly and professional activities in an ethical manner.

3: Create and defend scholarly work that makes a contribution to knowledge in the field.
Providing Department: PhD in English
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Create and defend scholarly work that makes a contribution to knowledge in the field.

Geology

BA in Geology
1: Understanding of geological concepts
Providing Department: BA in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to understand the fundamental concepts of Earth's many systems.

2: Critical assessment of geological information
Providing Department: BA in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should know how to find and assess scientifically credible information about Earth.

3: Communication skills
Providing Department: BA in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to communicate about Earth science in a meaningful way.

4: Application of geological knowledge
Providing Department: BA in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to make informed and responsible decisions regarding Earth and its resources.

BS in Geology

1: Understanding of geological concepts
Providing Department: BS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to understand the fundamental concepts of Earth's many systems.

2: Critical assessment of geological information
Providing Department: BS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should know how to find and assess scientifically credible information about Earth.

3: Communication skills
Providing Department: BS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to communicate about Earth science in a meaningful way.

4: Application of geological knowledge
Providing Department: BS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to make informed and responsible decisions regarding Earth and its resources.

MS in Geology
1: Analytical and methodological skills
Providing Department: MS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should have the analytical and methodological skills to understand or derive explanations for geological phenomena.

2: Geological career skills
Providing Department: MS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should have masters level skills useful in achieving entry or mid-career advancement in geology occupations.

3: Teaching skills
Providing Department: MS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to teach geology at the precollege or community college level.

4: Career and educational preparation
Providing Department: MS in Geology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be prepared for employment as a professional geologist or for further graduate work leading to a Ph.D. in Geology.

History

BA in History

1: B.A. LO1 - Compare Histories over Region and Time
Providing Department: BA in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
History majors will be able to compare the histories of diverse geographical regions and appraise their development over time.

2: B.A. LO2 - Analyze Historical Documents
Providing Department: BA in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
History majors will be able to analyze historical documents, address historical problems, and pose historical questions.

3: B.A. LO3 - Analytical Writing and Historical Research
Providing Department: BA in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
History majors will demonstrate a command of analytical writing and the ability to conduct independent historical research.

Graduate Certificate in World History

1: Historical Knowledge in World History
Providing Department: Graduate Certificate in World History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will acquire and demonstrate a broad understanding of knowledge in world history.
2: World Historical Analysis
Providing Department: Graduate Certificate in World History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will acquire an understanding of prominent theories and methodologies in world history and connect their own research interests to broader historical scholarship and the academic community.

3: Historical Scholarship in World History
Providing Department: Graduate Certificate in World History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will acquire knowledge of current scholarship, theories and methodologies in world history.

MA in History

1: Historical Knowledge
Providing Department: MA in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will acquire and demonstrate a broad understanding of historical knowledge in a major and minor field of history.

2: Historical Research
Providing Department: MA in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will create an original work of historical scholarship.

3: Historical Analysis
Providing Department: MA in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to connect their own research to broader historical scholarship and the academic community.

PhD in History

1: Knowledge and Ethics
Providing Department: PhD in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Doctoral students will demonstrate competence in their understanding of history and in their implementation of professional standards.

2: Historical Research Skills
Providing Department: PhD in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will obtain and demonstrate competence in historical research.

3: Academic Career Development
Providing Department: PhD in History
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Each student will identify career goals and build professional skills.
Mathematics

BA in Mathematics

1: B.A. in Mathematics: Learning Outcome
Providing Department: BA in Mathematics
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Each student completing the B.A. in Mathematics program is proficient in the application of the laws of logic. Each student can see connections between mathematical notions and applications; can formulate precise and relevant mathematical statements and questions; and can find valid means of resolving those questions.

Each student can distinguish between valid and fallacious arguments, and can understand the role of axioms or assumptions. Each student can abstract general principles from examples.

2: B.A. in Mathematics: Learning Outcome
Providing Department: BA in Mathematics
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Each student completing the B.A. in Mathematics program has a detailed understanding of a broad subset of known mathematical notions and results.

3: B.A. in Mathematics: Learning Outcome
Providing Department: BA in Mathematics
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Each student completing the B.A. in Mathematics program can communicate mathematical concepts and reason effectively, and is able to write rigorous proofs. Each student can communicate solutions and proofs effectively and concisely.

BS in Mathematics

4: B.S. in Mathematics: Learning Outcome
Providing Department: BS in Mathematics
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Each student completing the B.S. in Mathematics program has an appreciation for the essential role of mathematics in the natural sciences.
MA in Applied Mathematics

1: M.A. in Applied Mathematics: Learning Outcome
Providing Department: MA in Applied Mathematics
Start: 9/1/2012
End: 8/31/2015

Learning Outcome Description
Each student completing the M.A. in Applied Mathematics possesses a broad background in both applied mathematics and another area for which applied mathematics is relevant.

2: M.A. in Applied Mathematics: Learning Outcome
Providing Department: MA in Applied Mathematics
Start: 9/1/2012
End: 8/31/2015

Learning Outcome Description
Each student completing the M.A. in Applied Mathematics possesses mathematical skills suitable for employment in government or industry.

MA in Mathematics

1: M.A. in Mathematics: Learning Outcome
Providing Department: MA in Mathematics
Start: 9/1/2012
End: 8/31/2016

Learning Outcome Description
Each student completing the M.A. in Mathematics will have a solid mathematical foundation suitable for future Ph.D. work in mathematics.

2: M.A. in Mathematics: Learning Outcome
Providing Department: MA in Mathematics
Start: 9/1/2012
End: 8/31/2016

Learning Outcome Description
Each student completing the M.A. in Mathematics possesses mathematical skills suitable for employment in government or industry.

MA with a major in Mathematical Statistics

1: M.A. in Mathematical Statistics: Learning Outcome
Providing Department: MA with a major in Mathematical Statistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Each student completing the M.A. in Mathematical Statistics possesses solid mathematical foundation suitable for future Ph.D. work in statistics, applied mathematics, or another STEM (science, technology, engineering, and mathematics) field.

1: M.A. in Mathematical Statistics: Learning Outcome
Providing Department: MA with a major in Mathematical Statistics
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Each student completing the M.A. in Mathematical Statistics possesses solid mathematical foundation suitable for future Ph.D. work in statistics, applied mathematics, or another STEM (science, technology, engineering, and mathematics) field.

2: M.A. in Mathematical Statistics: Learning Outcome
Providing Department: MA with a major in Mathematical Statistics
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Each student completing the M.A. in Mathematical Statistics possesses statistical skills suitable for employment in government or industry.
2: M.A. in Mathematical Statistics: Learning Outcome
Providing Department: MA with a major in Mathematical Statistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Each student completing the M.A. in Mathematical Statistics possesses statistical skills suitable for employment in government or industry.

PhD in Mathematics

1: Ph.D. in Mathematics: Learning Outcome
Providing Department: PhD in Mathematics
Start: 9/1/2012
End: 8/31/2016

Learning Outcome Description
Each student completing the Ph.D. in Mathematics will have a solid foundation in a broad selection of mathematical areas.

2: Ph.D. in Mathematics: Learning Outcome
Providing Department: PhD in Mathematics
Start: 9/1/2012
End: 8/31/2016

Learning Outcome Description
Each student completing the Ph.D. in Mathematics will make original research contributions in a field of specialty.

Nutrition and Food Sciences

BA in Nutrition and Food Sciences

Learning Outcome 1: Integrates general research and analytical skills into contemporary food and nutrition issues
Providing Department: BA in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Learning Outcome 2: Understands the structure, biochemical and metabolic functions of nutrients and other dietary constituents
Providing Department: BA in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Learning Outcome 3: Applies knowledge of food, diets, and supplements in assessment and planning optimal diets
Providing Department: BA in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Learning Outcome 4: Apply techniques of nutritional status assessment in intervention and policy-making for healthy people and those with chronic diseases
Providing Department: BA in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

BS in Dietetics

Learning Outcome 1: Dietetics Learning Outcomes Assessment CRD 1
Providing Department: BS in Dietetics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Scientific & Evidence Base of Practice: Integration of scientific information and research into practice
Learning Outcome 2: Dietetics Learning Outcomes Assessment CRD 2
Providing Department: BS in Dietetics
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Professional Practice Expectations: Beliefs, values, attitudes and behaviors for the professional dietitian level of practice

Learning Outcome 3: Dietetics Learning Outcomes Assessment CRD 3
Providing Department: BS in Dietetics
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Clinical and Customer Services: Development and delivery of information, products and services to individuals, groups and populations

Learning Outcome 4: Dietetics Learning Outcomes Assessment CRD 4
Providing Department: BS in Dietetics
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Practice Management and Use of Resources: Strategic application of principles of management and systems in the provision of services to individuals and organizations

Learning Outcome Overview: An Overview of Learning outcome
Providing Department: BS in Dietetics
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
• The CPD is accredited by the Academy of Nutrition and Dietetics educational arm
  - Accreditation Council for Education in Nutrition and Dietetics (ACEND)
  - The accreditation cycle is 7 years, with reporting annually
• ACEND education standards include learning outcomes
  - Core Competencies (CRDs)
• All Programs must have an assessment plan
  - The plan includes data collection on
    • Measurable objectives for each CRD
    • Methods used for data collection, including tools and timeline
    • Designation of person/s responsible for the data collection

BS in Nutrition and Food Sciences

Learning Outcome 1: Integrate general research and analytical skills into contemporary food and nutrition issues
Providing Department: BS in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Learning Outcome 2: Understand the structure, biochemical and metabolic functions of nutrients and other dietary constituents
Providing Department: BS in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Learning Outcome 3: Apply knowledge of food, diets, and supplements in assessment and planning optimal diets
Providing Department: BS in Nutrition and Food Sciences
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Learning Outcome 4: Apply techniques of nutritional status assessment in interventions and policy-making for healthy people and those with chronic
MA in Nutrition and Food Sciences

- Learning Outcome 1: Understand the structure, biochemical and metabolic functions of nutrients and other dietary constituents and integrate general research and analytical skills into food and nutrition issues at an advanced level
  - Providing Department: MA in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description

- Learning Outcome 2: Develop scientific methods, collect and interpret data
  - Providing Department: MA in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description

MS in Nutrition and Food Sciences

- Learning Outcome 1: Understand the structure, biochemical and metabolic functions of nutrients and other dietary constituents and integrate general research and analytical skills into food and nutrition issues at an advanced level
  - Providing Department: MS in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description

- Learning Outcome 2: Develop scientific methods, collect and interpret data
  - Providing Department: MS in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description

PhD in Nutrition and Food Sciences

- Learning Outcome 1: Develop and display foundation in nutrition and food science for continuing Ph.D. programs in either nutrition or food science disciplines
  - Providing Department: PhD in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description

- Learning Outcome 2: Understand the structure, biochemical and metabolic functions of nutrients and other dietary constituents and integrate general research and analytical skills into food and nutrition issues at an advanced level
  - Providing Department: PhD in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description

- Learning Outcome 3: Apply acquired scientific knowledge in nutrition and food science to research and developing hypotheses
  - Providing Department: PhD in Nutrition and Food Sciences
  - Start: 9/1/2014
  - End: 8/31/2015

Learning Outcome Description
Learning Outcome 4: Develop scientific methods, collect and interpret data and draft manuscripts  
Providing Department: PhD in Nutrition and Food Sciences  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description

Post Bachelor Certificate in Dietetics

Learning Outcome 1: Dietetics Learning Outcomes Assessment CRD 1  
Providing Department: Post Bachelor Certificate in Dietetics  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Scientific & Evidence Base of Practice: Integration of scientific information and research into practice

Learning Outcome 2: Dietetics Learning Outcomes Assessment CRD 2  
Providing Department: Post Bachelor Certificate in Dietetics  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Professional Practice Expectations: Beliefs, values, attitudes and behaviors for the professional dietitian level of practice

Learning Outcome 3: Dietetics Learning Outcomes Assessment CRD 3  
Providing Department: Post Bachelor Certificate in Dietetics  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Clinical and Customer Services: Development and delivery of information, products and services to individuals, groups and populations

Learning Outcome 4: Dietetics Learning Outcomes Assessment CRD 4  
Providing Department: Post Bachelor Certificate in Dietetics  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Practice Management and Use of Resources: Strategic application of principles of management and systems in the provision of services to individuals and organizations

Learning Outcome Overview: Overview  
Providing Department: Post Bachelor Certificate in Dietetics  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description

- The CPD is accredited by the Academy of Nutrition and Dietetics educational arm  
  - Accreditation Council for Education in Nutrition and Dietetics (ACEND)  
  - The accreditation cycle is 7 years, with reporting annually
- ACEND education standards include learning outcomes  
  - Core Competencies (CRDs)
- All Programs must have an assessment plan  
  - The plan includes data collection on  
    - Measurable objectives for each CRD  
    - Methods used for data collection, including tools and timeline  
    - Designation of person/s responsible for the data collection

Other Programs

College Centers

Center for Latino/a and Latin American Studies  
Co-major
1: Successful Student Transition from HS to WSU
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will make a successful transition from their high schools of origin to WSU through participation in LAS 1410 and LAS 1420, as well as important gateway courses, such as ENG 1010, ENG 1020, MAT 0993 and MAT 1050.

2: Successful Graduation from WSU
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will successfully graduate from WSU in a timely manner, preferably within six or fewer years of first time enrollment.

3: Undergraduate Research
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to perform original, community-based, service-learning, undergraduate research projects, and will present their research at academic research conferences.

4: Knowledge of Latino/a and Latin American History & Culture
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will deepen their understanding and knowledge of Latino/a and Latin American history, culture and social issues.

Center for Peace and Conflict Studies
Co-major

1: Subject Area Knowledge and Societal Remedies
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Demonstrated knowledge of and critical thinking about Peace and Conflict related societal problems and remedial methods. Problems include violence ramifications and management, conflict definitions and aspects in local, interpersonal and global contexts, and definitions of peace. Critical thinking entails balanced views with pros and cons about implications and remedies.

2: Life changing impacts
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Self-awareness of how peace and conflict issues affect the student's personal life. Changes for student's personal outlook instilled by courses.

3: Subject Area Community Engagement
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Familiarity with the relationship of peace to social justice concerns and with practical experience of community and global organizations in this domain.

4: Cogent writing
Providing Department: Co-major
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Ability to write cogently on topics covered in the first three learning objectives. Cogent writing entails at minimum the ability to write a clear and well-organized essay of approximately five paragraphs, including an introduction, expansion and exposition, and conclusion, based on logical and evidence-based arguments or assertions. All writing assignments should feature proper source utilization and citation.

Graduate Certificate

1: Subject Knowledge
Providing Department: Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Demonstrated knowledge of and critical thinking about Peace Studies and Security Studies as social science related fields. Peace and Security Studies have traditionally been separate areas of study. The certificate student will become familiar with the approaches and findings in each area and be able to integrate them across the areas.

2: Implication of Boundaries
Providing Department: Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Awareness of the implications of inter-personal, inter-group and international boundaries and the prerequisites for peaceful relations across such boundaries.

3: Policy Relevant Knowledge
Providing Department: Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be familiarized with policy models, alternatives, and practices as applied to peace and security issues. Role playing and practicum or internship experience will be required.

4: Professional writing
Providing Department: Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will improve their ability to write cogently and professionally, including critical perspectives, on peace and security related topics. Writing may be in the form of policy papers or academic analyses. Analytical papers will be required in all courses, dealing with professional research journals and books, and/or with policy alternatives and selection criteria.

5: Research
Providing Department: Graduate Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- Ability to analyze and conduct research at the graduate level on peace and conflict topics. Occasion for such research will take place in reviews of relevant literature as well as in field research or practicum assignments.

Labor Studies Center

BA in Labor Studies

1: Knowledge and Skills
Providing Department: BA in Labor Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
# 1: Students master the knowledge and skills to become professional leaders in the field of employment and labor relations and human resource management in order to earn successful careers in business, labor, or government
2: Apply key concepts.
Providing Department: BA in Labor Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students apply key concepts to analyzing the appropriateness and effectiveness of labor and employment practices and policies that will lead ultimately to the improvement of workplace practices and organizational performance.

3: Career Development
Providing Department: BA in Labor Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students develop plans for career enhancement and work toward acquiring the relevant knowledge and skills.

MA in Employment and Labor Relations

#1: Knowledge and Skills
Providing Department: MA in Employment and Labor Relations
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
#1: Students master the knowledge and skills required to become professional leaders in the field of employment and labor relations and human resources in order to earn successful careers in business, labor, or government.

#2: Research
Providing Department: MA in Employment and Labor Relations
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
#2: Students conduct research that applies theories, concepts, and methodologies to assess current practices and policies in the field that will lead ultimately to the improvement of workplace practices and organizational performance.

#3: Career Development
Providing Department: MA in Employment and Labor Relations
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
#3: Students progress in their career and professional development by advancing their substantive knowledge of the field and improving their verbal and written communications skills.

College Degree/Minor/Certificate, not based in departments

Environmental Science

BS in Environmental Science

1.0: Unit Conversion
Providing Department: BS in Environmental Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will correctly apply unit conversions in flow rates, fluxes, and mass balance calculations.

2.0: Ecological Writing
Providing Department: BS in Environmental Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will convey ecological concepts effectively in written form.

Gender, Sexuality, and Women’s Studies
BA LO1: BA Learning Outcome 1
Providing Department: Major
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students demonstrate their ability to communicate their arguments effectively in written form.

BA LO2: BA Learning Outcome 2
Providing Department: Major
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will situate their analysis of questions within the broader field of GSW studies to demonstrate the breadth of their knowledge.

BA LO3: BA Learning Outcome 3
Providing Department: Major
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Drawing from feminist, gender, and queer theory, students demonstrate the ability to engage in their subject theoretically.

Linguistics
BA in Linguistics

S-1: Syntactic Patterns
Providing Department: BA in Linguistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Recognize syntactic patterns in English and other languages for which glosses are provided

S-2: Theoretical Concepts in Syntax
Providing Department: BA in Linguistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Utilize the theoretical concepts and tools of syntactic theory in order to describe and analyze patterns

S-3: Syntactic Analysis
Providing Department: BA in Linguistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze the structure of reasonably complex sentences

MA in Linguistics

S-1: Syntax: Recognize Patterns
Providing Department: MA in Linguistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Recognize syntactic patterns in English and other languages for which glosses are provided
5-2: Syntax: Theoretical Concepts
Providing Department: MA in Linguistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Utilize the theoretical concepts and tools of syntactic theory in order to describe and analyze syntactic patterns

5-3: Syntax: Analysis
Providing Department: MA in Linguistics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze the structure of reasonably complex sentences

Philosophy
BA in Philosophy

1: Content Knowledge
Providing Department: BA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate knowledge of important themes, figures, problems, and methods in the major areas of philosophy.

2: Analytical Reasoning
Providing Department: BA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at identifying, constructing, evaluating, and re-constructing arguments.

3: Clarity of Thought and Expression
Providing Department: BA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at writing (or speaking) in an organized, informed, and precise manner.

4: Research Skill
Providing Department: BA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at identifying and evaluating relevant sources for the philosophical themes, figures, and problems they explore.

MA in Philosophy

1: Content Knowledge
Providing Department: MA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate knowledge of important themes, figures, problems, and methods in the major areas of philosophy.

2: Analytical Reasoning
Providing Department: MA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at identifying, constructing, evaluating, and re-constructing arguments.
3: Clarity of Thought and Expression
Providing Department: MA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at writing (or speaking) in an organized, informed, and precise manner.

4: Research Skill
Providing Department: MA in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at identifying and evaluating relevant sources for the philosophical themes, figures, and problems they explore.

PhD in Philosophy

1: Content Knowledge
Providing Department: PhD in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate knowledge of important themes, figures, problems, and methods in the major areas of philosophy.

2: Analytical Reasoning
Providing Department: PhD in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at identifying, constructing, evaluating, and re-constructing arguments.

3: Clarity of Thought and Expression
Providing Department: PhD in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at writing (or speaking) in an organized, informed, and precise manner.

4: Research Skill
Providing Department: PhD in Philosophy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate skill at identifying and evaluating relevant sources for the philosophical themes, figures, and problems they explore.

Physics and Astronomy

BA in Astronomy

1: Demonstrate physical reasoning
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to master the basic concepts of physics.

2: Explain and analyze observations.
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to use conceptual physical and mathematical reasoning to analyze and thus explain physics and astronomy observations.
3: Scientific communication
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Communicate scientific information in an effective and professional manner.

4: Modeling
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use mathematical and computer-based modeling to analyze data and solve moderately complex problems.

5: Experimental Skills
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate proficient experimental design skills to solve technical problems and gather and analyze data involving modern physics and astronomy research techniques.

6: Synthesis
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Synthesize knowledge and proficiencies in astronomy, physics, mathematics, chemistry, geology and biology and have familiarity with the interdisciplinary nature of modern astronomy.

7: Student Success
Providing Department: BA in Astronomy
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students who complete the BA in Astronomy degree program should go on to a career in a STEM field.

BA in Physics

1: Learning Outcome: Knowledge
Providing Department: BA in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learn about the properties of matter and energy through studies of mechanics, electricity, magnetism, heat, light, and other radiation, and the structure of atoms.

3: Learning Outcome: Communication
Providing Department: BA in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Critically read, write and orally present scientific information in an effective and professional manner.

6: Learning Outcome: Experiment
Providing Department: BA in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate proficient experimental techniques to gather and critically analyze data involving state-of-the-art physics research techniques.
BS in Biomedical Physics

1: Learning Outcome Number 1
Providing Department: BS in Biomedical Physics
Start: 9/1/2014
End: 8/31/2016

Learning Outcome Description
Apply laws of physics in solving biomedical physics problems.

2: Learning Outcome Number 2
Providing Department: BS in Biomedical Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Critically read, write and orally present scientific knowledge in biomedical research area effectively and professionally.

BS in Physics

1: Learning Outcome: Knowledge
Providing Department: BS in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learn about the properties of matter and energy through studies of mechanics, electricity, magnetism, heat, light, and other radiation, and the structure of atoms.

3: Learning Outcome: Science Communication
Providing Department: BS in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Critically read, write and orally present scientific information in an effective and professional manner.

5: Learning Outcome: Applications
Providing Department: BS in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply knowledge in quantum and classical mechanics, electricity and magnetism, and relativity to contemporary problems in frontier research.

6: Learning Outcome: Experiment
Providing Department: BS in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate proficient experimental techniques to gather and critically analyze data involving state-of-the-art physics research techniques.

MA in Physics

1: Learning Outcome: Mathematical and Computational Skills
Providing Department: MA in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Master of Arts in Physics program will be able to use mathematical, analytical and computer-based techniques to synthesize different ideas in physics in a single coherent entity.

2: Learning Outcome: Communication Skills
Providing Department: MA in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Master of Arts in Physics program will be able to critically read, write and orally present technical information, related to physics, in an effective and professional manner.
MS in Physics

1: Learning Outcome: Mathematical and Computational Skills
Providing Department: MS in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Master of Science in Physics program should be able to use mathematical, analytical and computer-based techniques to solve new complex problems in physics.

2: Learning Outcome: Communication Skills
Providing Department: MS in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Master of Science in Physics program will be able to critically read, write and orally present technical information, related to physics, in an effective and professional manner.

PhD in Physics

1: Learning Outcome: Mathematical Skills
Providing Department: PhD in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Ph.D. in physics program will be able to demonstrate basic mathematical skills to learn advanced physics at graduate level and to develop new ideas in physics using these skills.

2: Learning Outcome: Comprehensive Knowledge of Physics
Providing Department: PhD in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Ph.D. in physics program will be able to apply basic principles related to various traditional areas of classical and quantum physics to solve physics problems.

3: Learning Outcome: Communication Skills
Providing Department: PhD in Physics
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students graduating from Ph.D. in physics program will be able to critically read, write and orally present technical information, related to physics or astronomy, in an effective and professional manner.

Political Science

BA in Political Science

1: Research
Providing Department: BA in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To access and appropriately invoke scholarly research bearing on issues and topics.

2: Critical Judgment
Providing Department: BA in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To apply critical judgment in assessing accounts and explanations of political phenomenon, with an appreciation of a multiplicity of perspectives.
3: Expression
Providing Department: BA in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To communicate information and argumentation in writing in a clear, logical, and formally correct manner (with appropriate citations).

Bachelor of Public Affairs

1: Research
Providing Department: Bachelor of Public Affairs
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To access and appropriately invoke scholarly research bearing on issues and topics.

2: Critical Judgment
Providing Department: Bachelor of Public Affairs
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To apply critical judgment in assessing accounts and explanations of political phenomenon, with an appreciation of a multiplicity of perspectives.

3: Expression
Providing Department: Bachelor of Public Affairs
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
To communicate information and argumentation in writing in a clear, logical, and formally correct manner (with appropriate citations).

Master of Political Science

1.0: MA Political Science LO 1.0 Statistical Analysis
Providing Department: MA in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will understand fundamental concepts in statistics and be able to apply the basics of statistical inference, estimation hypothesis testing and statistical reasoning. They will learn to conduct and interpret statistical analysis with statistical packages (SPSS or STATA).

2.0: MA Political Science - LO 2.0 Research Methods
Providing Department: MA in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will identify the basic characteristics of the four major research designs in political science, and apply this knowledge by designing an original research project.

3.0: MA Political Science LO 3.0 Formal academic writing and citation
Providing Department: MA in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will master skills of formal academic writing and citation. They will communicate information and argumentation in writing in a clear, logical and formally correct manner with good grammar and appropriate citations.

Master of Public Administration
1. to lead and manage in public governance

Providing Department: Master of Public Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- 1. to lead and manage in public governance;
  - A. A graduate of our program will be able to understand how both structure and culture of public organizations affect organizational effectiveness
  - B. A graduate of our program will know how to effectively manage human resources and provide leadership in this regard

2. to participate in and contribute to the policy process

Providing Department: Master of Public Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- 2. to participate in and contribute to the policy process;
  - A. A graduate of our program must be able to identify key stakeholders, their positions, coalitions, and the political context
  - B. A graduate of our program must be able to understand and apply the different aspects of the policy making cycle

3. to analyze, synthesize, think critically, solve problems and make decisions

Providing Department: Master of Public Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- 3. to analyze, synthesize, think critically, solve problems and make decisions;
  - A. A graduate of our program must be able to utilize scholarly research, data and other analytic techniques, and best professional practice, systematically analyzing and making decisions on administrative and policy in the public service.
  - B. A graduate of our program can communicate results clearly, in writing or orally, to an appropriate audience
  - C. A graduate of our program must be able to apply these concepts to a real world (substantive) case

4. to articulate and apply a public service perspective;

Providing Department: Master of Public Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- 4. to articulate and apply a public service perspective;
  - A. A graduate of our program will be able to make informed decisions and manage public service organizations in the public interest by effectively utilizing and balancing key public administration values
  - B. A graduate of our program will understand the value of fair and transparent administration, and will be able to effectively and ethically engage citizens in public service organizations

5. to communicate and interact productively with a diverse and changing workforce and citizenry.

Providing Department: Master of Public Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
- 5. to communicate and interact productively with a diverse and changing workforce and citizenry.
  - A. A graduate of our program will have the ability to develop and exercise intercultural sensitivity with employees and other stakeholders
  - B. A graduate of our program will be able to engage effectively and respectfully with multiple audiences

PhD in Political Science

1.0: PhD Political Science LO 1.0 Statistical analysis

Providing Department: PhD in Political Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will learn principles of statistical inference, estimation, hypothesis-testing and statistical reasoning. They will learn to conduct and interpret linear and multivariate regression with statistical packages (SPSS or STATA).
2.0: PhD Political Science LO 2.0 Research Methods
Providing Department: PhD in Political Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will demonstrate mastery of techniques for using quantitative and qualitative methods to test competing hypotheses about problems in politics.

3.0: PhD Political Science LO 3.0 Summarize theory and research
Providing Department: PhD in Political Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will accurately summarize theory and research in their major field of specialization.

Psychology
BA in Psychology
1: Knowledge Base in Psychology
Providing Department: BA in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students should be able to demonstrate and apply fundamental knowledge and comprehension of the major concepts and theoretical perspectives in psychology.

2: Scientific Thinking Skills
Providing Department: BA in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students should demonstrate psychology information literacy and be able to effectively evaluate research findings and apply research design principles to draw conclusions about psychological phenomena.

3: Ethics
Providing Department: BA in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students should be able to identify violations of ethical standards in psychological contexts.

4: Communication
Providing Department: BA in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students should be able to write a cogent scientific argument, present information using a scientific approach, engage in discussion of psychological concepts, explain scientific theory and results, and express their own ideas with clarity.

BS in Psychology
1: Knowledge Base in Psychology
Providing Department: BS in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students should be able to demonstrate and apply fundamental knowledge and comprehension of the major concepts and theoretical perspectives in psychology.
2: Scientific Thinking Skills
Providing Department: BS in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to demonstrate and apply fundamental knowledge and comprehension of the major concepts and theoretical perspectives in psychology.

3: Ethics
Providing Department: BS in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to identify violations of ethical standards in psychological contexts.

4: Communication
Providing Department: BS in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to write a cogent scientific argument, present information using a scientific approach, engage in discussion of psychological concepts, explain scientific theory and results, and express their own ideas with clarity.

MA in Industrial/Organizational Psychology

1: Application of Psychological Principles
Providing Department: MA in Industrial/Organizational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply psychological principles to the solution or amelioration of organizational problems.

2: Personnel Selection and Placement Establishment
Providing Department: MA in Industrial/Organizational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Establish personnel selection and placement programs in work organizations in accordance with accepted scientific, professional, and legal standards.

3: Performance Management Systems Knowledge
Providing Department: MA in Industrial/Organizational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Design, implement, and evaluate performance management systems in work organizations.

4: Job Training and Development Skills
Providing Department: MA in Industrial/Organizational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Formulate and evaluate employee and management job-relevant training and employee development programs.

5: Organizational Policy and Management Support
Providing Department: MA in Industrial/Organizational Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Design, execute, and present organizational policy and management support research.
MA in Psychology

1: Knowledge Base
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate knowledge of the broad science of psychology, and deep mastery of one or more chosen subdisciplines.

2: Evaluation Skills
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Critically evaluate research and theory in psychology, including its validity, interpretation, and application.

3: Research Design Skills
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply research methods appropriate to the research question.

4: Data Analysis Skills
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Conduct data analysis appropriate to the research question.

5: Research Contributions
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Disseminate research that adds to the body of knowledge in psychology.

6: Communication Skills
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Communicate scientific knowledge effectively to varied audiences, both orally and in writing.

7: Ethics
Providing Department: MA in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will adhere to ethical guidelines for research and professional work as a psychologist, appropriate to their specialty.

PhD in Psychology

1: Knowledge Base
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate knowledge of the broad science of psychology, and deep mastery of one or more chosen subdisciplines.
2: Evaluation Skills
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Critically evaluate research and theory in psychology, including its validity, interpretation, and application.

3: Research Design Skills
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Apply research methods appropriate to the research question.

4: Data Analysis Skills
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Conduct data analysis appropriate to the research question.

5: Research Contributions
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Disseminate research that adds to the body of knowledge in psychology.

6: Communication Skills
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Communicate scientific knowledge effectively to varied audiences, both orally and in writing.

7: Ethics
Providing Department: PhD in Psychology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will adhere to ethical guidelines for research and professional work as a psychologist, appropriate to their specialty.

Sociology
BA in Sociology

1: Learning Outcome: Theoretical Knowledge
Providing Department: BA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
1. Demonstrate knowledge of theoretical foundation in sociology and ability to apply theory to a specific topic.

2: Learning Outcome: Research Methods
Providing Department: BA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
2. Demonstrate knowledge of methodological techniques in sociology and ability to apply methodology to a specific topic.

3: Learning Outcome: Data Analysis
Providing Department: BA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
3. Demonstrate knowledge of data analytic techniques in sociology and ability to apply data analysis technique to a specific topic.

4: Learning Outcome: Writing
Providing Department: BA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
4. Demonstrate ability to write clearly in sociological style, including logical and compelling arguments.

5: Learning Outcome: Source Use
Providing Department: BA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
5. Uses sources appropriately, including sources that are credible and relevant, ability to paraphrase, and appropriate citations.

6: Learning Outcome: Critical Thinking
Providing Department: BA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
6. Demonstrate ability to think critically about social issues.

MA in Sociology

1: Learning Outcome: Theory
Providing Department: MA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
1. Demonstrate knowledge of theoretical foundation in sociology and ability to apply theory to a specific topic.

2: Learning Outcome: Research Methods
Providing Department: MA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
2. Demonstrate knowledge of methodological techniques in sociology and ability to apply methodology to a specific topic.

3: Learning Outcome: Data Analysis
Providing Department: MA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
3. Demonstrate knowledge of data analytic techniques in sociology and ability to apply data analysis technique to a specific topic.

4: Learning Outcome: Writing
Providing Department: MA in Sociology
Start: 9/1/2013
End: 8/31/2017
Learning Outcome Description
4. Demonstrate ability to write clearly in sociological style, including logical and compelling arguments.
Wayne State University

PhD in Sociology

5. Learning Outcome: Source Use
Providing Department: MA in Sociology
Start: 9/1/2013
End: 8/31/2017

Learning Outcome Description
5. Uses sources appropriately, including sources that are credible and relevant, ability to paraphrase, and appropriate citations.

6. Learning Outcome: Critical Thinking
Providing Department: MA in Sociology
Start: 9/1/2013
End: 8/31/2017

Learning Outcome Description
6. Demonstrate ability to think critically about social issues.

PhD in Sociology

1. Overview of Learning Outcomes in PhD Program in Sociology
Providing Department: PhD in Sociology
Start: 9/1/2014
End: 8/31/2017

Learning Outcome Description
Ph.D. Program Assessment: Sociology

This report was prepared by Heather Dillaway at the request of the Dean and Associate Deans in the College of Liberal Arts and Sciences at Wayne State University. Winter 2013.

The Importance of Sociology at Wayne State:

Sociology is a social science discipline that belongs at the heart and center of public, urban, Research 1 universities like Wayne State. Sociologists investigate the causes and consequences of human behavior and interaction, such as inequality, poverty, discrimination, health disparities, and urbanization. Situated within a city such as Detroit, the Wayne State Department of Sociology can offer a conceptual and evidence-based understanding of "real" urban social problems and solutions to those problems. While offering a general curriculum, our department is also unique in that it has comprehensive expertise in labor and urban studies, medical sociology, and race/gender inequalities. We have both strong faculty in these three areas and have recently reorganized our PhD curriculum to further highlight these strengths. The Department of Sociology supports Wayne State's urban mission, providing all PhD students with the grounding they need to succeed in an increasingly complicated and diverse world.

Issues Specific to Curriculum/Program Assessment:

a. At least two or three clearly stated learning goals for your academic programs:

The Ph.D. curriculum in the Department of Sociology at Wayne State provides thorough training for future scholars and teachers of sociology through basic graduate courses in research methods and sociological theory, a professional development seminar ("proseminar"), advanced substantive specialization seminars, a rigorous preliminary examination structure (written qualifying exam), a multi-part dissertation process (which includes an oral qualifying examination and final defense), and professional development workshops. Learning goals currently include:

1. A strong foundation in sociological theory and a range of quantitative and qualitative methods
2. Mastery of at least one substantive specialization area in one of the following: Medical Sociology, Race or Gender Inequality, Urban or Labor Studies. Students must also select a cognate (minor) area that supports this specialization as well.
3. Ability to independently propose and carry out empirical research in sociology.
4. Professionalization: Knowledge of their discipline and professional options upon graduation.

b. Instruments to measure these student learning goals

A. Basic Coursework in Sociological Theory and Methods: Our basic graduate curriculum in sociological theory insures that the graduate students understands theories of social behavior at the macro, meso, micro levels; can explain these theories to others orally and in written form; and can apply theoretical formulations to specific situations, problems, or research settings. Our basic curriculum in research methods insures that the student comprehends the nature and purposes of social research; recognizes the differences between qualitative and quantitative methodologies and the different ways in which the different types of methodologies can be used; understands and can explain and apply appropriate statistical techniques; can develop research methodologies for use in specific research settings; and can explain these issues to others orally and in written form. Basic course assignments are utilized as assessment tools (and can be described further as needed). Assignments typically are paper or project-based to facilitate students' writing and analytic skills, and instructors assess both individual students and yearly cohorts in their evaluations. Course goals and assignments are adjusted as needed.

A. Professional Development through Coursework in Sociology ("Proseminar"):

All students are required to take our graduate level professional development seminar (SOC 7030: Proseminar). The goals of the proseminar are to prepare students academically as sociologists, to socialize students into the profession of sociology, and to improve students' writing skills. To meet these goals, students are required to complete a variety of assignments, workshop activities, and must end the semester by making a poster presentation at the Annual Student Research and Award Day in Sociology. The first course is designed to assist students in developing an independent research project, regardless if it is the M.A. essay, M.A. thesis, or a Ph.D. dissertation, as well as professionalize students in their discipline. Students are assessed in how well they do in defining a research topic, reviewing theoretical and empirical sociological literature and situating their question/topic within a specific area of the discipline, selecting the methods for their project, and presenting the findings of their projects. Students' work in this course culminates in the completion of a final research paper and poster presentation, and both of these items are used to assess how well the curriculum of this course is working.

I. Advanced Coursework in Specialization Areas and Written Qualifying Exams: Upon the recommendations of an external review committee in Winter 2009, our new prelim structure and accompanying curriculum introduced new PhD-level courses around three main specialization areas in the department: Race/Gender Inequality, Medical Sociology, and Urban/Labor Sociology. Within each of these specialization areas, a new PhD curriculum now exists, including a) one "core" (mandatory) course that covers the basic body of knowledge and theories within that specialization, and then b) additional advanced seminars or courses in
that specialization. Students complete mandatory and elective specialization courses in their designated specialization and then study from a mandatory set of readings developed by faculty in their specialization area, before taking their PhD prelims (i.e., their written qualifying examination). PhD prelims now reflect the three specialization area concentrations and students must demonstrate proficiency in both theory and methods relevant to their specialization area (in addition to having basic knowledge of the current state of literature in their chosen specialization) while taking prelims.

Upon completion of required coursework, all PhD students in Sociology must successfully complete prelims in their chosen specialization (Race or Gender Inequality, Medical Sociology, or Urban or Labor Sociology). Students are given two chances to pass their prelims in Sociology. A student who fails to pass their prelims may appeal to the departmental Graduate Committee for a third chance to take the prelims, but appeals are only granted in extenuating circumstances and are not guaranteed. A student who fails prelims twice and is not granted an appeal is dismissed from the program.

All PhD prelims consist of 3 parts, taken over a 2 day period. The format is as follows:

a. Day One, Morning: Examination on sociological theory as applied to the student's area of specialization. 2 hours.

b. Day One, Afternoon: Examination on research methods, as applied to the student's area of specialization, 2 hours.

c. Day Two, Morning: Examination on the content of the individual student's research interest as related to the dissertation. 2 hours.

Prelims occur before the week before classes begin in the Fall and Winter terms. Standing grading committees for each specialization consist of 3-4 departmental faculty members who decide in each case whether students are given a "pass," "provisional pass" or "fail" on their prelims. In the case of a "provisional pass," students have passed two out of three parts of the exam, and are required to take the third part of the exam over during the next prelim round. Grades of B (3.0) or better are considered passing grades on prelims.

I. Oral Qualifying Exam (Dissertation Proposal Defense):

Upon completion of the written qualifying examination, PhD students must complete an oral qualifying examination as part of their degree requirements. In Sociology, the oral qualifying examination is the Dissertation Prospectus ("Proposal") Defense. It is conducted by the student's doctoral committee (consisting of three departmental faculty members and one faculty member external to the department) after a defendable draft of the dissertation prospectus has been completed. Students receive only one chance to complete their oral qualifying examination. Students who fail their oral qualifying examination are terminated from the graduate program.

Dissertation proposals include a short introductory chapter, a chapter of literature review, a chapter detailing students' theoretical or conceptual framework (although sometimes this is combined with the literature review), and a methods chapter that proposes how they will engage in their dissertation research. The student works with their dissertation advisor to finalize the proposal. Once the advisor approves the draft, the student will submit the proposal draft to the entire dissertation committee for review. Committee members receive 3-4 weeks to review the proposal draft and decide whether it is defensible. If all committee members agree that the proposal is defensible, an oral defense of the dissertation proposal will be scheduled. Students consult with their advisors to prepare for this oral defense. Dissertation proposals range in length, depending on the project's methodology and conceptual framework. On average, students work on their dissertation proposals for two semesters before they defend them successfully. In the oral defense and in reading the dissertation proposal, the 4-person dissertation committee assesses whether the student is ready to move on to the dissertation.

A. Dissertation Research and Final Defense: The doctoral dissertation is a major work which represents the student's demonstration of his/her ability to use the tools learned in their PhD programs in an original sociological research project. The dissertation is an empirical project which includes a comprehensive analysis of data (primary or secondary). This dissertation should demonstrate students' knowledge of the relationship between theory and methods, and make a solid and direct contribution to sociological knowledge. The dissertation should be publishable in the form (either as one full-length manuscript or in several article-length pieces), and should lead the student to numerous professional presentations as well. On average, the dissertation process can take four to six semesters to complete (although we have seen students move both more quickly and more slowly, depending on their topic, methods, and life constraints. Data collection and analysis can often take students one to two semesters by itself, and students will work with their advisors to complete these steps. After data collection and analysis are complete, students write up the results of their dissertation research, with guidance from their advisor. In our department, students typically write two to three chapters of results for their dissertation, as well as a concluding chapter that summarizes findings and contributions to the literature. Eventually the findings chapters and concluding chapter are combined with the chapters written for the dissertation proposal, so that the full dissertation holds the following chapters: Introduction, Literature Review, Theoretical Framework (sometimes combined with the Literature Review), Methods, Findings (typically two or three separate yet related chapters), and Conclusions. The student works with their advisor to draft and revise the entire dissertation before the rest of the committee reviews it. Once the student's advisor approves the draft, the student will distribute the dissertation to all committee members. Committee members will receive at least one month to review the draft of the final dissertation and decide whether they agree that it is defensible.

The final oral examination is conducted by the dissertation committee and presided over by the dissertation advisor. In the PhD program in Sociology, the final defense consists of three parts: 1) a public lecture on the dissertation, 2) a final examination (during which committee members ask the student questions about their work), and 3) an evaluation of the student's performance by the committee. The public lecture is a 20-30 minute presentation during which the student formally presents the rationale, background, methodology, and results of the dissertation. In the lecture, the candidate formally presents the methodology, research, and results of the investigation. In the discussion following the lecture, other matters, which the committee deems relevant, may be introduced. Then audience members who are not part of the dissertation advisory committee are excused, and the final examination is begun. At this point, the committee members will continue with their questioning and further examine the student on the dissertation. When the examination is completed, the dissertation committee evaluates the student's performance and decides whether the student passed or failed the public lecture and defense. If the student has passed, the committee members and the dissertation advisor sign final report forms. If the student fails, the committee will consult with the Graduate Director in Sociology and the student to decide upon further action.

c. Current or planned data collection efforts to evaluate if these goals are being met.

A. The Department keeps complete paper files for all PhD students. These include:

1. Lists of all students who apply and enroll.
2. Spreadsheets of student grades and coursework completion.
3. The Director of Graduate Studies, with the cooperation of faculty members and the Department Chair, conducts an annual review for each PhD student. All students are evaluated for how well they have progressed towards degree completion and for whether they are making satisfactory academic progress towards those goals. Goals for the following year are constructed for each student based on this annual review.
4. The department also keeps records of how many students pass prelims on the first try, and whether curriculum constraints. Data collection and analysis can often take students one to two semesters by itself, and students will work with their advisors to complete these steps. After data collection and analysis are complete, students write up the results of their dissertation research, with guidance from their advisor. In our department, students typically write two to three chapters of results for their dissertation, as well as a concluding chapter that summarizes findings and contributions to the literature. Eventually the findings chapters and concluding chapter are combined with the chapters written for the dissertation proposal, so that the full dissertation holds the following chapters: Introduction, Literature Review, Theoretical Framework (sometimes combined with the Literature Review), Methods, Findings (typically two or three separate yet related chapters), and Conclusions. The student works with their advisor to draft and revise the entire dissertation before the rest of the committee reviews it. Once the student's advisor approves the draft, the student will distribute the dissertation to all committee members. Committee members will receive at least one month to review the draft of the final dissertation and decide whether they agree that it is defensible.

The final oral examination is conducted by the dissertation committee and presided over by the dissertation advisor. In the PhD program in Sociology, the final defense consists of three parts: 1) a public lecture on the dissertation, 2) a final examination (during which committee members ask the student questions about their work), and 3) an evaluation of the student’s performance by the committee. The public lecture is a 20-30 minute presentation during which the student formally presents the rationale, background, methodology, and results of the dissertation. In the lecture, the candidate formally presents the methodology, research, and results of the investigation. In the discussion following the lecture, other matters, which the committee deems relevant, may be introduced. Then audience members who are not part of the dissertation advisory committee are excused, and the final examination is begun. At this point, the committee members will continue with their questioning and further examine the student on the dissertation. When the examination is completed, the dissertation committee evaluates the student’s performance and decides whether the student passed or failed the public lecture and defense. If the student has passed, the committee members and the dissertation advisor sign final report forms. If the student fails, the committee will consult with the Graduate Director in Sociology and the student to decide upon further action.

Ongoing discussion of these data occurs within the Graduate Committee and is brought to the full faculty when needed. All of these sources of data allow us to adjust our PhD curriculum when needed. For instance, effective Fall 2013, and based on our review of students’ prelim passage rates and students’ abilities to move to complete an oral qualifying examination in a timely fashion (within two semesters of prelims), we have decreased the number of general theory courses in the PhD curriculum and added mandatory specialization courses for students in the areas of Race/ Gender Inequality, Medical Sociology, or Urban/ Labor Sociology. By dropping the requirement that PhD students must take a third general theory course and adding the requirement of a mandatory specialization course, we are reacting to our data on prelim completion rates and time between written and oral qualifying examinations. Before this time, students did not have to pick a concrete specialization area and only took prelims in theory and methods, which left them ill-prepared to embark on a dissertation project of their own. Now, since adopting three concrete specialization areas for PhD students, we find that students are already much more well-versed in literature on their research topics and can more easily move from prelims to dissertation.
We will continue to analyze data on prelim completion rates and time between prelims and dissertation to assess whether our curriculum adjustments are working. We will also continue to review all other data we collect on our graduate students’ completion of coursework, annual reviews, and data collected at various turning points in their programs, to evaluate the success of our training program at the PhD level.

Urban Studies and Planning

BA in Urban Studies

1: Program Learning Outcome 1
Providing Department: BA in Urban Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Program Goal: Content-driven skills.

Learning outcomes based on this program goal are: How to view the city; history of the city; equity; urban politics; markets and urban economics; social, cultural, and humanistic dimensions of the city; global cities; environmental impacts and sustainability; economic development.

2: Program Learning Outcome 2
Providing Department: BA in Urban Studies
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Program Outcome: Basic competencies.

Learning outcomes based on this program goal are: Writing about the city; communicating about the city; visual presentation; retrieval of economic and demographic data; academic sources; introduction to web-based tools.

Graduate Certificate in Economic Development

1: Theory and Practice of Urban Economic Development
Providing Department: Graduate Certificate in Economic Development
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Theory and Practice of Urban Economic Development

Students will be able to describe basic concepts, policies, and practices to enhance local economies and their strengths and weaknesses.

2: Economic Development Policy, Politics, and Institutions
Providing Department: Graduate Certificate in Economic Development
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Economic Development Policy, Politics, and Institutions

Students will be able to analyze policies, institutions, and processes (and their interactions) related to labor and employment relations in the private or public sectors, or as they may relate to other urban policy areas that affect and are affected by economic development, such as housing, education, or place-based development.

3: Economics and Finance of Economic Development
Providing Department: Graduate Certificate in Economic Development
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
3. Economics and Finance of Economic Development

Students will be able to describe and apply basic concepts and methods of urban economics and public finance.

4: Economic Development Management and Analysis Techniques
Providing Department: Graduate Certificate in Economic Development
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
4. Economic Development Management and Analysis Techniques

Students will be able to analyze and apply principles and procedures of economic development management in public or private settings, including as they may relate to real estate development, financial management, or evaluation.
MA in Urban Planning

A1: Program Learning Outcome A1: General Planning Knowledge
Providing Department: MA in Urban Planning
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
A1. Students have basic knowledge about the planning field, profession, and practice.
A1a. Students have knowledge about the basic purpose and meaning of planning. This includes knowledge of the evolution and history of planning, its rationales, purposes, and significant successes and failures in US contexts; relationship of planning to society, economy, and governance; and basic tools of planning.
A1b. Students have knowledge about theories of planning. This includes knowledge of planning contexts and problems; relationship of politics, and rationales for and methods of community participation in planning; planning models; ethical dimensions of planning practice; and relationship between planning field, profession, practice.
A1c. Students have knowledge about planning law. This includes knowledge of legal dimensions of planning and land use and development; private property rights; legal tools, their strengths and limits; and significant cases.
A1d. Students have knowledge about the history of urbanization and planning.
A1e. Students have knowledge about emerging trends affecting urban communities and planning. This includes knowledge of trends related to social diversity, economic globalization and its social and ecological consequences, information technology, and global climate change.

A2: Program Learning Outcome A2: Planning Skills
Providing Department: MA in Urban Planning
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
A2. Students gain mastery of basic planning skills.
A2a. Students gain skills in planning research. This includes the ability to acquire, use, manage, and present the information needed to understand and plan for communities and places; to think about how to ask and answer planning research questions; and competence in written, oral, graphic communication about research analysis.
A2b. Students are competent in planning communication, including written, oral and graphic communication, and to diverse audiences.
A2c. Students are competent in the application of quantitative and qualitative methods in the analysis of planning problems.
A2d. Students are knowledgeable about and have skills to develop and implement plans and policies, including components of comprehensive plans.
A2e. Students are able to diagnose and apply elements of group processes, such as those related to collaboration, facilitation, negotiation, mediation, and communication across different groups and processes.
A2g. Students are able to identify and, as relevant, exercise, elements of leadership including in processes related to agenda-setting, community and stakeholder participation, alternative dispute resolution, and the promotion of social equity and protection of ecological integrity.

A3: Program Learning Outcome A3: Planning Values and Ethics
Providing Department: MA in Urban Planning
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
A3. Students identify as planners and apprehend core values of the planning field
A3a. Students diagnose and apply professional ethical principles in everyday planning processes.
A3b. Students incorporate and nurture in their planning practice, core values associated with community participation and collaborative processes in democratic governance.
A3c. Students appreciate the preeminent value to the maintenance of society--now and into the future--of ecological integrity and sustainability.
A3d. Students appreciate the need to balance diverse goals, such as economic growth and efficiency and ecological sustainability.
A3e. Students reflect in their practice, an appreciation of diversity as an asset for planning, and mitigation of social inequities as a key planning goal.

College of Nursing

Graduate Certificate Program in College of Nursing

Graduate Certificate in Acute Care Nurse Practitioner
1.0: Scientific Findings and Quality Improvement
Providing Department: Graduate Certificate in Acute Care Nurse Practitioner
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate skill in translating and integrating scientific findings and quality improvement principles to provide safe acute and critical care management of the adult-gerontological patient population health/illness status through health promotion, health protection, disease prevention, and treatment.

2.0: Interprofessional Teams
Providing Department: Graduate Certificate in Acute Care Nurse Practitioner
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Carry out interpersonal transactions to manage and coordinate care with the adult-gerontological patient population and interprofessional teams as a member and a leader to achieve therapeutic patient outcomes.

3.0: Teaching/Coaching
Providing Department: Graduate Certificate in Acute Care Nurse Practitioner
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competently use the teaching-coaching function through imparting knowledge and skills to the adult-gerontological patient population, as well as interpreting and individualizing therapies.

4.0: Advocacy and Policy Development
Providing Department: Graduate Certificate in Acute Care Nurse Practitioner
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Formulate a position on the Adult-Gerontology Acute Care Nurse Practitioner role in the policy development process and employment of advocacy strategies to advance the profession and influence health and health care of the adult-gerontological population.

5.0: Communication and Coordination of Care
Providing Department: Graduate Certificate in Acute Care Nurse Practitioner
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Skillfully use patient-care and communication technologies to deliver, enhance, integrate, and coordinate care in the Acute and Critical Care delivery systems.

6.0: Monitoring and ensuring quality of care
Providing Department: Graduate Certificate in Acute Care Nurse Practitioner
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Assume responsibility for monitoring and ensuring the quality of healthcare practice that is developmentally, culturally, spiritually, and ethically appropriate with respect for the adult-gerontological population.

Graduate Certificate in Complementary Therapies in Healthcare

1.0: Assess, guide, and evaluate CAM
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
At the end of the certificate program, the student will be able to assess, guide and evaluate CAM use in their patient/client populations using knowledge of complementary therapies, alternative medical systems (whole systems of care) and integrative system models of healthcare, thereby promoting safety and positive health outcomes.

2.0: Integrate CAM into practice
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
At the end of the certificate program, the student will be able to integrate selected complementary therapies into their nursing/healthcare plan within the context of evidence-based practice.
3.0: Develop competency in CAM
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
At the end of the certificate program, the student will be able to develop competency in skills related to selected CAM therapies covered in the course content.

4.0: Philosophical and historical underpinnings of CAM
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will understand and apply philosophical and historical underpinnings of CAM within a multicultural framework.

5.0: Supporting research
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will understand and apply research supporting the evidence-base of selected CAM therapies.

6.0: Prevalence and purpose of CAM
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will understand and apply prevalence and purpose for use of CAM providers, practices and products for health promotion and wellness, illness prevention, and symptom management related to chronic illness.

7.0: Integrating CAM into practice
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will understand and apply selected CAM therapies that can be integrated into professional nursing practice.

8.0: Ethical and legal implications
Providing Department: Graduate Certificate in Complementary Therapies in Healthcare
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will understand and apply ethical and legal implications of CAM therapy use, movement toward integrative care, and influence on conventional health care delivery in the U.S.

Graduate Certificate in Nurse Midwifery

1.0: Demonstrate Competence
Providing Department: Graduate Certificate in Nurse Midwifery
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate competence in the clinical practice of midwifery as characterized by the Core Competencies for Basic Midwifery Practice 2012 (American College of Nurse Midwives, 2012)

2.0: Practice Collaboratively
Providing Department: Graduate Certificate in Nurse Midwifery
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Practice collaboratively within the health care system while providing primary care to women and newborns
3.0: Adapt healthcare interventions
Providing Department: Graduate Certificate in Nurse Midwifery
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use midwifery knowledge, innovation, creativity and cultural competence to adapt health care interventions based on the interrelationships among person, environment and health;

4.0: Analyze and evaluate effectiveness of healthcare interventions
Providing Department: Graduate Certificate in Nurse Midwifery
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze current knowledge for midwifery practice, evaluate effectiveness of health care interventions and use evidence-based care in clinical practice.

5.0: Advance Knowledge
Providing Department: Graduate Certificate in Nurse Midwifery
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Engage in scholarly activity to advance knowledge in women's health, newborn and midwifery care and collect accurate and clinical practice data/statistics.

6.0: Provide leadership
Providing Department: Graduate Certificate in Nurse Midwifery
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Provide leadership in women's health care through active involvement in professional organizations, clinical teaching, and political awareness/involvement.

Graduate Certificate in Nursing Education

1.0: Formulate a conceptual framework.
Providing Department: Graduate Certificate in Nursing Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon completion of the GCNE, the student will formulate a conceptual framework of the teaching-learning process appropriate for own teaching.

2.0: Analyze concepts and theories.
Providing Department: Graduate Certificate in Nursing Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon completion of the GCNE, the student will analyze concepts and theories relevant to cognitive, affective and psychomotor learning, the teaching process, and instructional methods.

3.0: Measurement, analysis, evaluation and grading.
Providing Department: Graduate Certificate in Nursing Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon completion of the GCNE, the student will utilize concepts of measurement, analysis, evaluation and grading by analyzing results of evaluation strategies.

4.0: Role of the teacher
Providing Department: Graduate Certificate in Nursing Education
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon completion of the GCNE, the student will examine the role of the teacher in nursing in varied settings and situations.
Graduate Certificate in Pediatric Nurse Practitioner-Acute Care

1.0: Demonstrate competence.
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Acute Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate competence in Acute Care pediatric Nurse Practitioner clinical practice as characterized by the Nurse Practitioner Core Competencies (NONFP, 2012) and Population-Focused Nurse Practitioner competencies-Pediatric Acute Care (NONPF, 2013)

2.0: Practice collaboratively
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Acute Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Practice collaboratively within the health care system while providing care to infants, children, and adolescents with complex acute, critical, and chronic health conditions and families.

3.0: Adapt health care interventions
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Acute Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use knowledge, innovation, creativity and cultural competence to adapt health care interventions based on the interrelationships among person, environment and health.

4.0: Analyze and evaluate effectiveness
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Acute Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze current knowledge for acute care pediatric nurse practitioner practice, evaluate effectiveness of health care interventions, and use evidence-based care in clinical practice.

5.0: Scholarly activity
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Acute Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Engage in scholarly activity to advance knowledge in pediatric acute care and collect accurate outcome and clinical practice data/statistics.

6.0: Provide leadership
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Acute Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Provide leadership in pediatric acute health care through active involvement in professional organizations, clinical teaching, and political awareness/involvement.

Graduate Certificate in Pediatric Nurse Practitioner-Primary Care

1.0: Demonstrate competence
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Primary Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate competence in Pediatric Nurse Practitioner primary care clinical practice as characterized by the Nurse Practitioner Core Competencies (NONFP, 2012) and Population-Focused Nurse Practitioner competencies-Pediatric Primary Care (NONPF, 2013)

2.0: Practice Collaboratively
Providing Department: Graduate Certificate in Pediatric Nurse Practitioner-Primary Care
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Practice collaboratively within the health care system while providing care to infants, children, adolescents, and families.
3.0: Adapt health care interventions
Providing Department: Graduate Certificate in Pediatric Nurse practitioner-Primary Care
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Use knowledge, innovation, creativity and cultural competence to adapt health care interventions based on the interrelationships among person, environment and health.

4.0: Analyze and evaluate health care
Providing Department: Graduate Certificate in Pediatric Nurse practitioner-Primary Care
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Analyze current knowledge for primary care pediatric nurse practitioner practice, evaluate effectiveness of health care interventions, and use evidence-based care in clinical practice.

5.0: Scholarly activity
Providing Department: Graduate Certificate in Pediatric Nurse practitioner-Primary Care
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Engage in scholarly activity to advance knowledge in pediatric primary care and collect accurate outcome and clinical practice data/statistics.

6.0: Provide leadership
Providing Department: Graduate Certificate in Pediatric Nurse practitioner-Primary Care
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Provide leadership in pediatric primary health care through active involvement in professional organizations, clinical teaching, and political awareness/involvement.

Nursing - BSN

1.0: Integrate knowledge of caring in the human health experience.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student will integrate knowledge of caring in the human health experience and in the practice of nursing with individuals, families and communities.

2.0: Integrates knowledge of health promotion, health restoration and supportive measures.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student integrates knowledge of health promotion, health restoration and supportive measures in nursing care of individuals, families and communities.

3.0: Manages nursing care of individuals and families across a variety of settings.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The graduate of the BSN program manages nursing care of individuals and families across a variety of settings in community-based systems of health care.

4.0: Provides culturally congruent nursing care.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student provides culturally congruent nursing care to individuals, families and communities.
5.0: Uses critical thinking in selecting and applying theoretical knowledge.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student uses critical thinking in selecting and applying theoretical knowledge in nursing.

6.0: Systematically evaluates processes and outcomes of healthcare.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student systematically evaluates processes and outcomes of healthcare using established criteria.

7.0: Integrates research findings.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student integrates research findings in professional nursing practice.

8.0: Applies complex technologies.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student applies complex technologies in planning, delivery, and evaluation of care.

9.0: Promotes effective communication.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student promotes effective communication among clients, healthcare professionals, and community-based healthcare systems.

10.0: Analyzes systems.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student analyzes systems of healthcare delivery, effects on client outcomes, and interrelationship with professional nursing practice.

11.0: Demonstrates behaviors that reflect internalization of values and ethics.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student demonstrates behaviors that reflect internalization of values and ethics of professional nursing.

12.0: Accountable for continued learning and professional development.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The student is accountable for continued learning and shows commitment to professional development.

13: CCNE Standard IV-C. Licensure and certification pass rates demonstrate program effectiveness.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The NCLEX-RN® pass rate for each campus/site and track is 80% or higher for first-time takers for the most recent calendar year. However, if the NCLEX-RN® pass rate for any campus/site and track is less than 80% for first-time takers for the most recent calendar year, (1) the pass rate for that campus/site or track is 80% or higher for all takers (first-time and repeat) for the most recent calendar year, (2) the pass rate for that campus/site or track is 80% or higher for first-time takers when the annual pass rates for the three most recent calendar years are averaged, or (3) the pass rate for that campus/site or track is 80% or higher for all takers (first-time and repeat) when the annual pass rates for the three most recent calendar years are averaged.

14: CCNE Standard IV-B The BSN program demonstrates achievement of required program outcomes regarding completion.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The completion rate for each of the three most recent calendar years is provided.
• The program specifies the entry point and defines the time period to completion.
• The program describes the formula it uses to calculate the completion rate.

15: Diverse enrollment in BSN programs
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student body of the WSU CON will maintain or increase by 5% the diversity of its student body. Diversity is defined as diversity by Race and ethnicity and gender.

16: CCNE Standard IV-D. Employment rates demonstrate program effectiveness.
Providing Department: Nursing - BSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The program demonstrates achievement of required outcomes regarding employment rates.
• The employment rate is collected separately for each degree program (baccalaureate, master’s, and DNP) and post-graduate APRN certificate program.
• Data are collected within 12 months of program completion. For example, employment data may be collected at the time of program completion or at any time within 12 months of program completion.
• The employment rate is 70% or higher. However, if the employment rate is less than 70%, the employment rate is 70% or higher when excluding graduates who have elected not to be employed.

Nursing (PhD)
1.0: Create Knowledge
Providing Department: Nursing (PhD)
Start: 9/1/2014
End: 10/1/2015

Learning Outcome Description
PhD students publish a manuscript in a peer-reviewed journal.

2.0: Disseminate scholarly work to professional and lay audiences
Providing Department: Nursing (PhD)
Start: 9/1/2014
End: 10/1/2015

Learning Outcome Description
The student will publish in a scholarly journal.

Nursing Practice (DNP)
1.0: Provide advance practice nursing care
Providing Department: Nursing Practice (DNP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will provide advance practice nursing care to individuals, families and/or populations that is ethical, and science-based.
2.0: Develop and initiate new innovative practice approaches  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will develop and initiate new innovative practice approaches based on theories from nursing and other disciplines.

3.0: Analyze, synthesize and evaluate accessibility and quality of care  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will analyze, synthesize and evaluate accessibility and quality of care across diverse, underserved and vulnerable populations.

4.0: Utilize the determinants of health  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will utilize the determinants of health for individuals and/or aggregates/communities for diverse, underserved and vulnerable populations.

5.0: Critically appraise, disseminate and translate science.  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will critically appraise, disseminate and translate science to advance the quality and accessibility of care.

6.0: Demonstrate advanced clinical investigative competencies to evaluate outcomes and systems.  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will demonstrate advanced clinical investigative competencies to evaluate clinical outcomes and systems of care.

7.0: Use information technology  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will use information technology in design, selection, use and evaluation of programs to advance the accessibility of care.

8.0: Critically appraise, disseminate and translate innovative technological advancement  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will critically appraise, disseminate and translate innovative technological advancement to improve the quality and accessibility of care.

9.0: Demonstrate leadership in communication and collaborative skills.  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
The student will demonstrate leadership in communication and collaborative skills as agents of change that improves accessibility to quality health care for diverse, underserved and vulnerable populations.

10.0: Analyze emerging clinical patterns and develop delivery approaches.  
Providing Department: Nursing Practice (DNP)  
Start: 9/1/2014  
End: 8/31/2015
Learning Outcome Description
The student will analyze emerging clinical patterns and develop delivery approaches to care that deals with complex problems within the practices settings, health care organizations, and communities.

11.0: Shape the health care policy debate
Providing Department: Nursing Practice (DNP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The student will shape the health care policy debate.

Nursing-MSN

1.0: Practices advanced nursing from a holistic, evidence-based perspective.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The graduate of the MSN Program practices advanced nursing from a holistic, evidence-based perspective that is ethically, culturally congruent and economically sound.

2.0: Develops skills for leadership and quality improvement.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The graduate of the MSN Program develops skills for leadership and quality improvement in complex organizational systems.

3.0: Analyzes the impact of informatics and technology on the delivery and outcomes of healthcare.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The graduate of the MSN Program analyzes the impact of informatics and technology on the delivery and outcomes of healthcare in diverse settings.

4.0: Implements healthcare policies and advocates for patients and the nursing profession.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The graduate of the MSN Program implements healthcare policies and advocates for patients and the nursing profession through interaction with organizational, local, state, and/or federal-level policy makers.

5.0: With interdisciplinary colleagues, practices advanced nursing.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The graduate of the MSN program, in collaboration with interdisciplinary colleagues, practices advanced nursing that focuses on health-promoting and risk-reduction interventions to achieve optimal patient and population health outcomes.

6: CCNE Standard IV-B The MSN program demonstrates achievement of required program outcomes regarding completion.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Standard IV
Program Effectiveness: Assessment and Achievement of Program Outcomes

The program is effective in fulfilling its mission and goals as evidenced by achieving expected program outcomes. Program outcomes include student outcomes, faculty outcomes, and other outcomes identified by the program. Data on program effectiveness are used to foster ongoing program improvement.
IV-B. Program completion rates demonstrate program effectiveness.
Elaboration: The program demonstrates achievement of required program outcomes regarding completion. For each degree program (baccalaureate, master’s, and DNP) and post-graduate APRN certificate program:
• The completion rate for each of the three most recent calendar years is provided.
• The program specifies the entry point and defines the time period to completion.
• The program describes the formula it uses to calculate the completion rate.
• The completion rate for the most recent calendar year is 70% or higher. However, if the completion rate for the most recent calendar year is less than 70%, (1) the completion rate is 70% or higher when the annual completion rates for the three most recent calendar years are averaged or (2) the completion rate is 70% or higher when excluding students who have identified factors such as family obligations, relocation, financial barriers, and decisions to change major or to transfer to another institution of higher education.
A program with a completion rate less than 70% for the most recent calendar year provides a written explanation/analysis with documentation for the variance.

7.: CCNE Standard IV-C. Licensure and certification pass rates demonstrate program effectiveness.
Providing Department: Nursing-MSN
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The graduate program demonstrates achievement of required program outcomes regarding certification. Certification results are obtained and reported in the aggregate for those graduates taking each examination, even when national certification is not required to practice in a particular state.

Eugene Applebaum College of Pharmacy and Health Sciences
Fundamental and Applied Sciences
Bachelor of Health Science

1: Oral Communication Skills
Providing Department: Bachelor of Health Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates of the Bachelor of Health Sciences degree program will demonstrate effective oral communication skills necessary for future client interactions.

2: Written Communication Skills
Providing Department: Bachelor of Health Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates of the Bachelor of Health Sciences degree program will demonstrate effective written communication skills necessary for future practice.

BS, Clinical Laboratory Science

1: CLS Program Learning Outcome #1
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcome #1: Clinical Laboratory Science program graduates will demonstrate entry-level knowledge necessary to perform the full range of clinical laboratory testing.

2: CLS Program Learning Outcome #2
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
a) Learning Outcome #2: Clinical Laboratory Science program graduates will apply principles and practices of professional conduct.

3: CLS Program Learning Outcome #3
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcome #3: Clinical Laboratory Science program graduates will apply safety regulations and standards as appropriate to clinical laboratory science.
4: CLS Program Learning Outcome #4
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcome #4: Clinical Laboratory Science program graduates will communicate appropriately with members of the health care team.

5: CLS Program Learning Outcome #5
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcome #5: Clinical Laboratory Science program graduates will apply principles and practices of management and supervision as appropriate to clinical laboratory science.

6: CLS Program Learning Outcome #6
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcome #6: Clinical Laboratory Science program graduates will utilize educational methodologies and terminology sufficient to train/educate users and providers of laboratory services.

7: CLS Program Learning Outcome #7
Providing Department: BS, Clinical Laboratory Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcome #7: Clinical Laboratory Science program graduates will apply principles and practices of clinical study design, implementation, and dissemination of results.

BS, Mortuary Science

1: Funeral Arrangements
Providing Department: BS, Mortuary Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate proper practices in funeral arranging by applying knowledge of the types of ceremonies and methods of final disposition, merchandising, and trends.

2: Preparation of Remains
Providing Department: BS, Mortuary Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate an ability to prepare human remains through embalming and other preparation and presentation skills.

3: Grief Applications
Providing Department: BS, Mortuary Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Relate principles of the grief process and sociology to approaches and methods of interaction with the bereaved.

4: Legal, Ethical, & Business Standards
Providing Department: BS, Mortuary Science
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Apply legal, ethical, and business standards to funeral service practice.
BS, Pathologists Assistant

1: PA Learning Outcome #1
Providing Department: BS, Pathologists Assistant
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
SLO #1: Graduates of the Pathologists' Assistant program will demonstrate entry level competency in general and systemic Pathology.

2: PA Learning Outcome #2
Providing Department: BS, Pathologists Assistant
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
SLO #2: Graduates of the Pathologists' Assistant program will demonstrate entry level competency in anatomic pathology techniques.

3: PA Learning Outcome #3
Providing Department: BS, Pathologists Assistant
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
SLO #3: Graduates of the Pathologists' Assistant program will demonstrate entry level competency in gross and normal microscopic anatomy.

4: PA Learning Outcome #4
Providing Department: BS, Pathologists Assistant
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
SLO #4: Graduates of the Pathologists' Assistant program will demonstrate entry level competency in autopsy pathology techniques.

5: PA Learning Outcome #5
Providing Department: BS, Pathologists Assistant
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
SLO #5: Graduates of the Pathologists' Assistant program will demonstrate entry level competency in laboratory regulation, compliance, management and safety associated with anatomic pathology.

Certificate, Post-Bachelor's Forensic Investigation

1: Learning Outcome #1 PBFI
Providing Department: Certificate, Post-Bachelor's Forensic Investigation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1: Upon completion of the PBFI program, graduates will be able to describe the legal/ethical and operational parameters of a forensic investigation specialist.

2: Learning Outcome #2 PBFI
Providing Department: Certificate, Post-Bachelor's Forensic Investigation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon completion of the program, graduates will be able to describe specimen collection techniques that meet protocol specifications.

Health Care Sciences

BS, Radiation Therapy Technology

1.1: Learning Outcome 1 - Clinical Competency
Providing Department: BS, Radiation Therapy Technology
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate clinical competency.
“Equipment and treatment room activities”

“Patient alignment skills”

### 2.1: Learning Outcome 2 - Oral Communication
**Providing Department:** BS, Radiation Therapy Technology
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Students will demonstrate effective oral communication skills.

### BS, Radiological Technological

#### Goal 1: Problem Solving/Critical Thinking
**Providing Department:** BS, Radiological Technological
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
The student/graduate will demonstrate problem-solving and critical thinking skills in the clinical arena.

#### Goal 2: Clinical Competence
**Providing Department:** BS, Radiological Technological
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
The student/graduate will demonstrate clinical competence, producing image of diagnostic quality and enhancing the delivery of health care to the community.

#### Goal 3: Communication skills
**Providing Department:** BS, Radiological Technological
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
The graduate will be able to demonstrate effective written and oral communication skills.

#### Goal 4: Professionalism
**Providing Department:** BS, Radiological Technological
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
The student/graduate will exhibit professionalism

### DPT, Physical Therapy

#### 1: Communication (Verbal)
**Providing Department:** DPT, Physical Therapy
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Graduates of the Doctor of Physical Therapy Program will be able to effectively use verbal communication while speaking in a culturally competent manner with peers and other interdisciplinary team members.

#### 2: Physical Therapy Examination
**Providing Department:** DPT, Physical Therapy
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**  
Graduates of the Doctor of Physical Therapy Program will be able to examine patients/clients using culturally appropriate and age-related tests and measure.
### MOT, Occupational Therapy

#### 1: Learning Outcome 1 - Occupational Therapy Process Knowledge

**Providing Department:** MOT, Occupational Therapy  
**Start:** 9/1/2014  
**End:** 8/31/2016  

**Learning Outcome Description**
By the end of course work prior to Level II Fieldwork, students will demonstrate competency regarding factors that influence occupational performance with clients/patients throughout the occupational therapy process.

#### 2: Learning Outcome 2 - Occupational Therapy Intervention Plan

**Providing Department:** MOT, Occupational Therapy  
**Start:** 9/1/2008  
**End:** 8/31/2016  

**Learning Outcome Description**
By the end of course work prior to level II Fieldwork, students will demonstrate that they can formulate conclusions regarding client needs and priorities to develop and monitor an intervention plan throughout the occupational therapy process.

### MS, Nurse Anesthesia

#### Learning Outcome 1.0: Pre-Operative Assessment

**Providing Department:** MS, Nurse Anesthesia  
**Start:** 9/1/2014  
**End:** 8/31/2015  

**Learning Outcome Description**

**Title:** Nurse Anesthesia LO 1.0 Preparation of the Surgical Patient

**Progress:** In Progress

- **Providing Department:** Nurse Anesthesia

**Learning Outcome Description:**

Students will accurately analyze preoperative patient data to devise a comprehensive anesthetic plan.

**Assessment Method:**

**Data Source:** A clinical instructor completes a daily, written evaluation of the student’s clinical performance utilizing the Performance Assessment Instrument (PAI). The PAI is a specific Nurse Anesthesia clinical evaluation tool. The tool is designed with different level of performance expectations ranging from simple to complex (Practicum II-IV). The PAI has four subsections to assess clinical performance, and preparation is one of the subsections for assessment. The following assessment criteria are stated on the PAI and used to assess preparation.

- **Preparation**
  - Routine equipment for case available and functioning: Yes No
  - Machine check: Yes No
  - Cart stocked and table top appropriately set-up: Yes No
  - Specialized equipment for case available
  - Preoperative assessment / selects appropriate ASA status
  - ACP: Written Verbal
  - Knowledgeably discusses and provides rationale for ACP
Supporting Documentation:
Performance Assessment Instrument (Practicum II-III)
Performance Assessment Instrument (Practicum IV-VI)

Data Scoring: The PAI is composed of a numerical scale, an area for written documentation by the clinical instructor and the Evaluation Scale (measurement for Performance criteria)

Evaluation Scale:  
3 = The student's clinical performance exceeds the practicum objectives.  
2 = The student's clinical performance meets the practicum objectives and is commensurate with their levels in the program  
1 = The student requires significant assistance in meeting the practicum objectives. Clinical performance is unsatisfactory.

The Evaluation Chair of the WSU Nurse Anesthesia Program reviews the documentation from the clinical instructors on a weekly basis, rates the comments using the evaluation scale and uses the data from the PAI to complete a summary evaluation prior to meeting with each student at midterm evaluation. At midterm, the Chair reviews with each student their clinical performance and areas in need of improvement prior to completion of the practicum. The Program Director reviews all the evaluations to determine the effectiveness of program.

Successful completion of the clinical practicum objectives must be demonstrated for advancement to the subsequent practicum. Students who are not successful in meeting the required clinical practicum objectives at the end of the practicum will receive an "I" (Incomplete) on their summative form with directions and guidelines for acceptable performance.

Supporting Documentation:
Performance Assessment Instrument (Practicum II-III)
Performance Assessment Instrument (Practicum IV-VI)

Learning Outcome 2.0: Technical Skills  
Providing Department: MS, Nurse Anesthesia  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description:  
Number: LO 2.0  
Title: Nurse Anesthesia LO 2.0 Technical Skills  
Progress: In Progress  
Providing Department: Nurse Anesthesia  
Learning Outcome Description: Students will perform technical skills with competency and utilizing appropriate standards.

MS, Physician Assistant Studies  
1: Evidence-based medicine and scientific principles  
Providing Department: MS, Physician Assistant Studies  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description: Physician assistant students will use evidence-based medicine and scientific principles when making management decisions in patient care. The foundation will be taught to students in the didactic year and they will demonstrate and apply these skills in the clinical rotations during the second year of the program.
2: History, physical, and diagnostic findings to formulate differential diagnosis
Providing Department: MS, Physician Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Physician Assistant students will be able to take a medical history, perform appropriate physical examination, and use diagnostic findings to formulate a differential diagnosis.

3: Communication with patients
Providing Department: MS, Physician Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Physician Assistant students will develop the skills to effectively communicate with patients. The basic skills will be developed during the first year of the program. During the clinical rotations students will be able to apply these skills to patient care.

4: Interprofessional relations
Providing Department: MS, Physician Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Physician Assistant students will work with other healthcare professionals to provide patient-centered care.

5: Compassionate care
Providing Department: MS, Physician Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Physician Assistant students will demonstrate compassion and respectful behaviors with patients.

6: Professional Relationships
Providing Department: MS, Physician Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Physician Assistant students will maintain a positive professional relationship with other professionals.

7: Professional integrity
Providing Department: MS, Physician Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Physician Assistant Students will demonstrate respect, compassion and integrity while providing patient care.

MS, Radiological Assistant Studies

Learning Outcome 1: Problem Solving Skills
Providing Department: MS, Radiological Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate problem solving skills during their radiologists' assistant clinical experience.

Learning Outcome 2: Oral Communication
Providing Department: MS, Radiological Assistant Studies
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Demonstrate effective oral communication.
Post-master certificate, Pediatric Anesthesia (Fellowship)

1.0: Learning Outcome 1.0
Providing Department: Post-master certificate, Pediatric Anesthesia (Fellowship)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Learner Outcome: LO I: Patient Care Clinical Skills
  - Integrate theoretical foundation of specific disease processes in infants and children to devise a practice care plan that will achieve the desired patient care outcomes following anesthesia for surgery

2.0: Learning Outcome 2.0
Providing Department: Post-master certificate, Pediatric Anesthesia (Fellowship)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Learner Outcome: LO II: Interpersonal and Communication Skills
  - Use specific language and or terms to facilitate clear understanding of the anesthetic plan by the child and parent during the peri-operative period of patient assessment and preparation for surgery

Transitional DPT, Physical Therapy

1: Professional Duty
Providing Department: Transitional DPT, Physical Therapy
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates of the Doctor of Physical Therapy transitional program will develop a self-exploration portfolio to improve the effectiveness of patient / client care.

2: Evidence-Based Practice
Providing Department: Transitional DPT, Physical Therapy
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Graduates of the Doctor of Physical Therapy transitional program will critically evaluate sources of information related to physical therapy practice, research, or education and apply knowledge from these sources to appropriate populations. Each student will select practice, research, or education based upon their practice setting.

Pharmacy

MS, Pharmaceutical Sciences

1: Know basic principles in each discipline
Providing Department: MS, Pharmaceutical Sciences
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Know and comprehend basic principles of each discipline

3: Apply interdisciplinary knowledge.
Providing Department: MS, Pharmaceutical Sciences
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Apply interdisciplinary knowledge from 3 disciplines to specific problems in major (pharmacology, medicinal chemistry, or pharmaceutics).

5: Communication of research data
Providing Department: MS, Pharmaceutical Sciences
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Clearly articulate, communicate, summarize and present research data and concepts
PharmD, Pharmacy Practice

1. Ability of pharmacist graduate to communicate with patients and health care professionals
   Providing Department: PharmD, Pharmacy Practice
   Start: 9/1/2014
   End: 8/31/2015

   Learning Outcome Description
   Our pharmacy curriculum has 37 approved Ability Based Outcomes (ABOs) that were approved by the faculty and define the basis of our Doctor of Pharmacy Program. These ABOs are based off of the 2004 Center for Advancement of Pharmacy Education’s outcomes which are a group of outcomes that are endorsed by our accrediting body, Accreditation Council for Pharmacy Education (ACPE). The full outcome from our curriculum being referenced in this section is as reads:

   1.17 Communicate effectively and persuasively with patients, patients’ agents, health care professionals, administrators, policy makers, payers and the public (able to handle conflict resolution, effective in overcoming communication barriers, effective group presentation skills).

2. Informatics and application to patients and population based care
   Providing Department: PharmD, Pharmacy Practice
   Start: 9/1/2014
   End: 8/31/2015

   Learning Outcome Description
   Our pharmacy curriculum has 37 approved Ability Based Outcomes (ABOs) that were approved by the faculty and define the basis of our Doctor of Pharmacy Program. These ABOs are based off of the 2004 Center for Advancement of Pharmacy Education’s outcomes which are a group of outcomes that are endorsed by our accrediting body, Accreditation Council for Pharmacy Education (ACPE). The full outcome from our curriculum being referenced in this section is as reads:

   1.15 Utilize informatics, epidemiologic and pharmacoeconomic data, medication-use criteria, medication use review and risk reduction strategies to develop disease prevention and management programs in order to provide patient and population based care.

3. Possess skills for life-long learning
   Providing Department: PharmD, Pharmacy Practice
   Start: 9/1/2014
   End: 8/31/2015

   Learning Outcome Description
   Our pharmacy curriculum has 37 approved Ability Based Outcomes (ABOs) that were approved by the faculty and define the basis of our Doctor of Pharmacy Program. These ABOs are based off of the 2004 Center for Advancement of Pharmacy Education’s outcomes which are a group of outcomes that are endorsed by our accrediting body, Accreditation Council for Pharmacy Education (ACPE). The full outcome from our curriculum being referenced in this section is as reads:

   4.2 Possess the skills and attitudes required to be a motivated, self-directed, independent, life-long learner.

PhD, Pharmaceutical Sciences

1. Know basic principles in each discipline
   Providing Department: PhD, Pharmaceutical Sciences
   Start: 9/1/2014
   End: 8/31/2015

   Learning Outcome Description
   Know and comprehend basic principles of each discipline

3. Apply interdisciplinary knowledge
   Providing Department: PhD, Pharmaceutical Sciences
   Start: 9/1/2014
   End: 8/31/2015

   Learning Outcome Description
   Apply interdisciplinary knowledge from 3 disciplines to specific problems in major (pharmacology, medicinal chemistry, or pharmaceutics).

5. Communication of research data
   Providing Department: PhD, Pharmaceutical Sciences
   Start: 9/1/2014
   End: 8/31/2015

   Learning Outcome Description
   Clearly articulate, communicate, summarize and present research data and concepts
LO1: Define Problem
Providing Department: Irvin D. Reid Honors College
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Students shall be able to:

LO1: Define Problem

Identify and articulate problems/issues in a way that facilitates critical analysis and takes into account relevant contextual factors, i.e., its historical, ethical, social, cultural and disciplinary dimensions.

LO2: Analyze Issues Critically and Comprehensively
Providing Department: Irvin D. Reid Honors College
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2: Analyze Issues Critically and Comprehensively

Efficiently gather and critically analyze information necessary to identify and/or develop actual and potential solutions to the problem.

LO3: Propose and Evaluate Solutions to Problems
Providing Department: Irvin D. Reid Honors College
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO3: Propose and Evaluate Solutions to Problems

Develop and/or evaluate potential and actual solutions with detailed consideration given to relevant contextual factors, feasibility, and effects/impacts, and recommend or offer conclusions based on same.

Law School

J.D.

1: Learning outcome 1
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Students will be able to identify and apply basic concepts, theories, and rules of law necessary to effectively and responsibly participate in the legal profession or related professions.

2: Learning outcome 2
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Students will be able to perform legal analysis and reasoning and problem-solving.

3: Learning outcome 3
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Students will be able to communicate effectively orally in the legal context.

4: Learning outcome 4
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to communicate effectively in writing in the legal context.

5: Learning outcome 5
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to locate, organize, and evaluate legal sources and materials, and distinguish between the types and relevance of legal authorities.

6: Learning outcome 6
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to display proficiency in other professional skills that are integral to effective legal practice.

7: Learning outcome 7
Providing Department: J.D.
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to understand and live up to the proper professional and ethical responsibilities to clients, colleagues, and the legal system required of members of the legal profession.

LL.M. in Corporate & Finance Law

1: Learning outcome 1
Providing Department: LL.M. in Corporate & Finance Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to advise clients with respect to the formation of corporate entities and the various methods of financing their activities.

2: Learning outcome 2
Providing Department: LL.M. in Corporate & Finance Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to understand and analyze key legal issues involved in regulating corporate behavior.

3: Learning outcome 3
Providing Department: LL.M. in Corporate & Finance Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to communicate effectively with experienced corporate and tax lawyers on issues of vital concerns of clients.

4: Learning outcome 4
Providing Department: LL.M. in Corporate & Finance Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to recognize and apply proper professional rules and ethical principles that arise in connection with client representation in this field.

LL.M. in Labor & Employment Law

1: Learning outcome 1
Providing Department: LL.M. in Labor & Employment Law
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will be able to initiate or defend litigation challenging an employment-related decisions under federal or state law.

2: Learning outcome 2
Providing Department: LL.M. in Labor & Employment Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to draft or analyze key provisions of an employment manual or other documents common in the United States workplace.

3: Learning outcome 3
Providing Department: LL.M. in Labor & Employment Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to negotiate employment contracts and severance packages.

4: Learning Outcome 4
Providing Department: LL.M. in Labor & Employment Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to communicate effectively with experienced labor and employment lawyers on issues of vital concerns of clients.

5: Learning outcome 5
Providing Department: LL.M. in Labor & Employment Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to recognize and apply professional rules and ethical principles that arise in connection with client representation in this field.

LL.M. in Taxation

1: Learning outcome 1
Providing Department: LL.M. in Taxation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to assist in the preparation of basic individual tax returns.

2: Learning outcome 2
Providing Department: LL.M. in Taxation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to perform legal research needed to complete more complicated tax returns, provide tax planning advice to clients, or formulate arguments and positions in a legislative context.

3: Learning outcome 3
Providing Department: LL.M. in Taxation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to understand and analyze the tax implications of various structures for corporate transactions.

4: Learning outcome 4
Providing Department: LL.M. in Taxation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to initiate litigation in the U.S. Tax Court and other forums on behalf of tax payers.
5: Learning outcome 5
Providing Department: LL.M. in Taxation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to communicate effectively with experienced tax lawyers on issues of vital concerns of clients.

6: Learning outcome 6
Providing Department: LL.M. in Taxation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to recognize and apply professional rules and ethical principles that arise in connection with client representation in this field.

LL.M. in United States Law

1: Learning outcome 1
Providing Department: LL.M. in United States Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to identify and apply basic concepts, theories, and rules of law as they are applied in the United States.

2: Learning outcome 2
Providing Department: LL.M. in United States Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to perform legal analysis and reasoning related to United States law.

3: Learning outcome 3
Providing Department: LL.M. in United States Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to communicate effectively in writing in the legal context.

4: Learning outcome 4
Providing Department: LL.M. in United States Law
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to locate, organize, and evaluate legal sources and materials, and distinguish between the types and relevance of legal authorities in United States law.

School of Business Administration

Certificate Programs

Graduate Certificate in Business

1.: Critical thinking
Providing Department: Graduate Certificate in Business
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Critical thinking—students show a clear, comprehensive understanding of the case/problem; they effectively use both analysis and synthesis to identify relevant issues and formulate feasible solutions.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Providing Department: Graduate Certificate in Business</th>
<th>Start: 9/1/2014</th>
<th>End: 8/31/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.: Environmental analysis</td>
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<tr>
<td>Learning Outcome Description</td>
<td>Environmental analysis—students are able to identify key elements in the operating and strategic environments, make reasonable assumptions, and recognize and cope effectively with environmental uncertainty; students are able to develop insightful and compelling alternatives that address uncertainty</td>
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<td>3.: Global analysis</td>
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<tr>
<td>Learning Outcome Description</td>
<td>Global analysis—students demonstrate an understanding of the global dimensions of business and formulate insightful recommendations to address global challenges and opportunities</td>
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<td>4.: Leading and managing human resources</td>
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<tr>
<td>Learning Outcome Description</td>
<td>Leading and managing human resources—students can identify the critical dimensions of interpersonal and task requirements necessary to lead and manage people and excel at using these skills in group settings</td>
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<td>5.: Collaborative skills/teamwork</td>
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<tr>
<td>Learning Outcome Description</td>
<td>Collaborative skills/teamwork—students collaborate effectively in team environments; team projects demonstrate students' ability to integrate diverse perspectives</td>
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<td>6.: Ethical analysis</td>
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<td>Learning Outcome Description</td>
<td>Ethical analysis—students demonstrate the ability to identify multiple dimensions of ethical issues and incorporate their understanding of these issues into their decisions</td>
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<td>7.: Integrative problem solving</td>
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<tr>
<td>Learning Outcome Description</td>
<td>Integrative problem solving—students can identify cross-disciplinary/cross-functional perspectives of a business problem and demonstrate the ability to synthesize these perspectives in feasible, insightful solutions</td>
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</tr>
</tbody>
</table>

Post-Bachelor Certificate in Accounting
1.: Written Communication
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
• Communicate effectively in writing
• Express thoughts in writing using an appropriate format that includes proper grammar, punctuation, spelling, and sentence construction
• Understand what written format is suitable for a specific task
• Express thoughts concisely

2.: Oral Communication
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
• Communicate effectively in oral presentations
• Organize ideas, communicate messages appropriate to listeners and situations
• Use appropriate presentation style, including use of visual aids and handout materials

3.: Ethical Analysis
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
• Demonstrate an understanding of ethical issues in contemporary business practice
• Demonstrate objectivity, integrity, and ethical behavior
• Understand ethical codes relevant to accounting practice, such as those promulgated by AICPA, IMA, and IAA

4.: Collaborative Skills/Teamwork
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
• Demonstrate effective interaction with others in team settings
• Work productively with other individuals in diverse roles and with varying degrees of interest in the outcome
• Influence, inspire, and motivate others to achieve results
• Resolve conflicts within the group

5.: Information Literacy/Research Skills
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
• Demonstrate an ability to identify, find, interpret, evaluate, and use information appropriately

6.: Technical Mastery of Accounting
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
• Demonstrate an understanding of the common body of accounting knowledge, including both theory/concepts and real-world applications
• Demonstrate the ability to perform accounting work and interpret accounting reports

7.: Decision Making in Complex Environments
Providing Department: Post-Bachelor Certificate in Accounting
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will:
• Recognize and analyze problems, their key causes, and their possible solutions
• Critically analyze, evaluate, and synthesize information as a guide to action
• Work within ambiguous or unstructured situations and make appropriate decisions
• Understand the purposes and limitations of narrow, technical solutions within a broader business context
• Apply technical rules, critical reasoning, and sound judgment to solve real-world accounting and tax problems

Post-Bachelor Certificate in Information Systems Management

ISM3630: Course Learning Outcomes: L01-L04: ISM 3630 “Introduction to Business Information Systems” (REQUIRED) The course will provide the student with knowledge about the potential for the contribution of information systems to the activities and performance of the organization and of individuals
Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning outcomes:
1. Advanced information systems concepts: The student will be able to describe the ways in which computers can be used in business and management, to improve efficiency and effectiveness and to enable business opportunities and in this way help achieve business objectives and benefits. These computer uses include Database, the Internet and future directions in computer based information systems. Security issues in computer use will be addressed.
2. Terminology: The student will become familiar with and understand the language of computer and systems technology. This covers terms used to describe common techniques and concepts in business information systems.
3. Systems Design: The student will have an awareness of the skills required to participate in systems design and project implementation. This will include user requirements identification, awareness of data structures choices, security issues, and alternative development methodologies such as systems prototyping and agile programming.
4. Behavioral and organization issues: The student will be aware of managerial, ethical and organizational issues that are associated with the development, implementation, and use of computer-based information systems. This includes the ability to identify and suggest appropriate responses to these issues. The impact and effects of globalization will be addressed.

Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcomes:
1. Evaluate and understand the components of corporate network infrastructures.
2. Explore and understand the technologies, processes and methodologies to design, build and maintain secure corporate networks.
3. Explore and understand the fundamental principles of information security including access control, authentication, application and network security, cryptography, business continuity, and risk management.
4. Apply and understand the security principles to describe, evaluate and operate a layered approach to building defensive network architecture.
5. Explore and understand the various types of design and implementation vulnerabilities, their underlying causes, identifying characteristic, methods of exploitation, and potential mitigation strategies.
6. Utilize and understand security principles in the identification of, and defense against, security attacks including network and wireless security, social engineering, access control and authentication, and malicious software.
7. Examine and understand the security profession Code of Ethics.
8. Evaluate and understand the roles and responsibilities involved in network and security planning and staffing.

ISM5530: Course Learning Outcomes: L01-L06: ISM 5530 “Ethical Issues in Information Technology” The objective of this course is to provide an awareness of the wider social, legal and ethical issues of information technology. Ethics in IT
Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Learning Outcomes:
LO1: Be able to determine the impact of the privacy laws on information security policies.
LO2: Understand the issues related to intellectual freedom, intellectual property, and copyright law as they relate to electronic publishing.
LO3: Be able to determine and identify ethical procedures and behaviors in the organization related to information security.
LO4: Appreciate how rapid changes in technology might affect ethical issues and changing norms of behavior.
LO5: Understand the issues related to privacy and confidentiality as they relate to information technology.
LO6: Understand the ethical issues associated with gathering, storing and accessing personal information in databases.

ISM5560: Course Learning Outcomes: L01-L06: ISM 5560 “Survey of E-Commerce” A broad based and balanced coverage of both the business and
technology elements of eCommerce. This course presents concepts and skills for the strategic use of e-commerce and related information system

Providing Department: Post-Bachelor Certificate in Information Systems Management

Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
After successfully completing this course, students should be able to:

LO1: Demonstrate an understanding of the foundations and importance of eCommerce
LO2: Demonstrate an understanding of the impact of eCommerce on business models and strategy
LO3: Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intraorganizational.
LO4: Describe the infrastructure for eCommerce
LO5: Demonstrate an understanding of eCommerce related programming, database, and networking issues.
LO6: Recognize legal, global, privacy, security and risk management issues in eCommerce

ISM5570: Course Learning Outcomes: L01-L04: ISM 5570 - Data Mining - The fundamental principles and techniques of data mining.
Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Upon successful completion of the course, students are able to:

LO1: Explain the basic principles of the primary data mining techniques.
LO2: Explain the difference between data mining, data warehousing, machine learning, etc.
LO3: Design mining models and manage databases to enable data mining technologies as part of larger systems.
LO4: Describe issues facing latest trends in data mining.

ISM5820: Course Learning Outcomes: L01-L04: ISM 5820 - Systems Analysis and Design - (REQUIRED) Introduces established and evolving methodologies for the analysis, design, and development of an information system.
Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Course Learning Outcomes:

LO1: Apply business and system analysis methods to identify and define the computing requirements of organizations.
LO2: Design, implement and evaluate a computer-based system or program that meets the needs of organizational stakeholders.
LO3: Create a user interface and architecture design to support the functionality of an information system.
LO4: Identify and evaluate alternative conversion and migration strategies for implementing an information system in an organization

ISM5860: Course Learning Outcomes: L01-L06: ISM 5860 - Data Communications and Networks - (REQUIRED) introduces the undergraduate business student to various facets of business data communications: concepts and terminology, approaches to designing systems, standards, hardware and software, network.
Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Course Learning Outcomes:

LO1: Terminology. You will be able to explain the meaning of terms describing common techniques and concepts in data communications and networks.
LO2: Systems Design. You will be able to identify and differentiate among alternative designs for meeting data communications requirements of various organizations. You will be able to identify potential organizational and personnel conflicts arising from the implementation of a network or data communications system and suggest appropriate responses to these conflicts.
LO3: Standards. You will be able to describe the most important standards that currently apply to data communications and networks.
LO4: Skills. You will demonstrate proficiency in using electronic mail, using the World Wide Web, and uploading/downloading files. You will be able to configure a workstation on a local area network and perform basic user maintenance under Linux, Microsoft Windows Server 2003, and/or Novell NetWare.
LO5: International aspects. You will be able to identify issues raised by international data communications and wide area networks that cross national borders.
LO6: Developing trends. You will be able to describe the changes in data communications that are likely to occur during the next several years. You will also be familiar with issues and opportunities related to the Internet and the World Wide Web.

ISM5992: Course Learning outcomes: L01-L08: ISM 5992 - Database Systems - (REQUIRED) A step-by-step introduction to the topics concerning database concepts
Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description

Learning outcomes:

1. Issue SQL commands that will retrieve data based on criteria specified by the user.
2. Use SQL commands to join tables and retrieve data from the joined tables.
3. Perform calculations based on data contained within the database.
4. Use subqueries to retrieve based on unknown conditions.
5. Create, modify, and drop database tables.
7. Enforce business rules through the use of table constraints.
8. Create printable reports through various SQL Plus commands.

ISM_5994: Course Learning Outcomes: LO1-LO10: ISM 5994 Software tools for Business Applications (REQUIRED) Demonstrate a basic working knowledge in the following areas of web technologies such as HTML, Javascript, XAML, and XML. Design and development tools such as Express

Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Description of Student Learning Outcomes:

Students will be able to:

1. articulate the fundamentals of standards-based website design;
2. demonstrate the various methods for and benefits of keeping content, presentation, and interactivity separate on a web page;
3. demonstrate the various uses and benefits for bringing in dynamic data to the website;
4. describe the impact and implication of standards-based web design;
5. incorporate functionality into websites using client-side scripting languages;
6. effectively use debugging tools and techniques to troubleshoot, find, and fix errors;
7. competently utilize web authoring design and development tools;
8. integrate advanced HTML 5 markup features to make an effective user interface for the website;
9. apply and integrate multimedia (video and audio) into the website;
10. expand the student's ability to think and reason rigorously;

ISM_6997: Course Learning Outcomes: LO1-LO4: ISM 6997 Information Systems Policy and Management Acquire knowledge of contemporary information systems issues, including the use of information technology for competitive advantage.

Providing Department: Post-Bachelor Certificate in Information Systems Management
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

LO1: Describe frameworks for strategical alignment of IT and corporate goals.

LO2: Analyze information systems management issues or information technology trends.

LO3: Identify and describe opportunities and challenges facing information systems executives in today's global economy.

LO4: Analyze the strategic impact of an organization's current information systems portfolio vis-à-vis the information systems under development.

Doctoral Program

Doctor of Philosophy in Business Administration (Ph.D.)

1.: The Acquisition of Advanced Knowledge in Areas of Specialization

Providing Department: Doctor of Philosophy in Business Administration (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

The student will obtain a grade of B or better in each doctoral major course. The student will demonstrate an understanding of the global dimensions of the selected field of knowledge. The acquisition of this understanding will be demonstrated in the student's evaluation in an appropriate course or Ph.D. level Directed Study incorporating a global perspective. The student will pass written and oral comprehensive examinations addressing the area of specialization.

2.: The Development of Advanced Research Skills for the Areas of Specialization

Providing Department: Doctor of Philosophy in Business Administration (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

- The student will successfully complete at least 11 hours of statistics and quantitative methods classes, as prescribed in his or her plan of work.
- The student must utilize the advanced research skills in: 1) a paper presented at the Fall Ph.D. Research Conference, described below, and 2) an original paper submitted to an academic conference or an academic journal, or its equivalent.
3. Development of research papers in the student’s area of specialization that demonstrate the ability to make significant independent, original intellectual contributions that will advance the field’s knowledge

Providing Department: Doctor of Philosophy in Business Administration (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• Every fall term, there will be a Ph.D. Research Conference, where doctoral students who have not defended their dissertation proposal will make a formal presentation on (theoretical or empirical) research they have conducted during the prior year. The student must be the lead author on the paper.
• The student will work with appropriate faculty members with the objective of developing papers for academic conferences and academic journals.
• At least one paper written by the student will be empirical analysis of data and its interpretation rooted in discipline-specific theory.
• The student should submit an original paper at an academic conference, or have a research paper under submission to an academic journal or its equivalent, prior to graduation.

4. Preparation for teaching responsibilities in higher education

Providing Department: Doctor of Philosophy in Business Administration (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• The student will teach at least one course prior to candidacy, and
• The student will be evaluated by students using Wayne State’s Student Evaluation of Instruction surveys, and
• The student will be observed teaching by a faculty member in the area of specialization.
• If the student’s evaluation of teaching is poor (average evaluation score less than 3.0 and/or the faculty evaluator deems the student teaching as unacceptable) then the student will be enrolled in a program for improved teaching at the Wayne State Office of Teaching and Learning and/or other programs to help improve teaching.

5. Student dissertations demonstrating personal integration of, and original intellectual contribution to, the selected field of knowledge

Providing Department: Doctor of Philosophy in Business Administration (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• The student must conduct original research and defend a dissertation.

Masters Programs

Master of Business Administration (MBA)

1. Critical thinking

Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students show a clear, comprehensive understanding of the case/problem; they effectively use both analysis and synthesis to identify relevant issues and formulate feasible solutions.

2. Environmental analysis

Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students are able to identify key elements in the operating and strategic environments, make reasonable assumptions, and recognize and cope effectively with environmental uncertainty; students are able to develop insightful and compelling alternatives that address uncertainty.

3. Global analysis

Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students demonstrate an understanding of the global dimensions of business and formulate insightful recommendations to address global challenges and opportunities.

4.: Leading and managing human resources
Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students can identify the critical dimensions of interpersonal and task requirements necessary to lead and manage people and excel at using these skills in group settings.

5.: Collaborative skills/teamwork
Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students collaborate effectively in team environments; team projects demonstrate students' ability to integrate diverse perspectives.

6.: Ethical analysis
Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students demonstrate the ability to identify multiple dimensions of ethical issues and incorporate their understanding of these issues into their decisions.

7.: Integrative problem solving
Providing Department: Master of Business Administration (MBA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students can identify cross-disciplinary/cross-functional perspectives of a business problem and demonstrate the ability to synthesize these perspectives in feasible, insightful solutions.

Master of Science in Accounting (MSA)

1.: Written Communication
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- communicate effectively in writing.
- express thoughts in writing using an appropriate format that includes proper grammar, punctuation, spelling, and sentence construction.
- understand what written format is suitable for a specific task.
- express thoughts concisely.

2.: Oral communication
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- communicate effectively in oral presentations.
- organize ideas, communicate messages appropriate to listeners and situations;
- use appropriate presentation style, including use of visual aids and handout materials.
3. Ethical Analysis
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- demonstrate an understanding of ethical issues in contemporary business practice.
- demonstrate objectivity, integrity, and ethical behavior.
- Understand ethical codes relevant to accounting practice, such as those promulgated by AICPA, IMA, and IAA

4. Collaborative Skills/Teamwork
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- demonstrate effective interaction with others in team settings.
- work productively with other individuals in diverse roles and with varying degrees of interest in the outcome.
- influence, inspire, and motivate others to achieve results.
- resolve conflicts within the group.

5. Information Literacy/Research Skills
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- demonstrate an ability to identify, find, interpret, evaluate, and use information appropriately.

6. Technical Mastery of Accounting
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- demonstrate an understanding of the common body of accounting knowledge, including both theory/concepts and real-world applications.
- demonstrate the ability to perform accounting work and interpret accounting reports.

7. Decision Making in Complex Environments
Providing Department: Master of Science in Accounting (MSA)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- recognize and analyze problems, their key causes, and their possible solutions.
- critically analyze, evaluate, and synthesize information as a guide to action.
- work within ambiguous or unstructured situations and make appropriate decisions.
- understand the purposes and limitations of narrow, technical solutions within a broader business context.
- apply technical rules, critical reasoning, and sound judgment to solve real-world accounting and tax problems.

Master of Science in Taxation (MST)

1. Written Communication
Providing Department: Master of Science in Taxation (MST)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will:
- communicate effectively in writing.
- express thoughts in writing using an appropriate format that includes proper grammar, punctuation, spelling, and sentence construction.
- understand what written format is suitable for a specific task.
- express thoughts concisely.
2.: Oral communication  
Providing Department: Master of Science in Taxation (MST)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will:  
- communicate effectively in oral presentations.  
- organize ideas, communicate messages appropriate to listeners and situations;  
- use appropriate presentation style, including use of visual aids and handout materials.

3.: Ethical Analysis  
Providing Department: Master of Science in Taxation (MST)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will:  
- demonstrate an understanding of ethical issues in contemporary business practice.  
- demonstrate objectivity, integrity, and ethical behavior.  
- Understand ethical codes relevant to accounting practice, such as those promulgated by AICPA, IMA, and IAA.

4.: Collaborative Skills/Teamwork  
Providing Department: Master of Science in Taxation (MST)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will:  
- demonstrate effective interaction with others in team settings.  
- work productively with other individuals in diverse roles and with varying degrees of interest in the outcome.  
- influence, inspire, and motivate others to achieve results.  
- resolve conflicts within the group.

5.: Information Literacy/Research Skills  
Providing Department: Master of Science in Taxation (MST)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will:  
- demonstrate an ability to identify, find, interpret, evaluate, and use information appropriately.

6.: Technical Mastery of Accounting  
Providing Department: Master of Science in Taxation (MST)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will:  
- demonstrate an understanding of the common body of accounting knowledge, including both theory/concepts and real-world applications.  
- demonstrate the ability to perform accounting work and interpret accounting reports.

7.: Decision Making in Complex Environments  
Providing Department: Master of Science in Taxation (MST)  
Start: 9/1/2014  
End: 8/31/2015  
Learning Outcome Description  
Students will:  
- recognize and analyze problems, their key causes, and their possible solutions.  
- critically analyze, evaluate, and synthesize information as a guide to action.  
- work within ambiguous or unstructured situations and make appropriate decisions.  
- understand the purposes and limitations of narrow, technical solutions within a broader business context.  
- apply technical rules, critical reasoning, and sound judgment to solve real-world accounting and tax problems.
Undergraduate Programs

Bachelor of Arts (B.A.) in Business Administration

1.: Critical Thinking
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate critical thinking abilities including the ability to apply appropriate information to solve the problem, make recommendations, and draw logical conclusions.

2.: Written Communication
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective written communication skills, so that the message is understood by individuals with diverse backgrounds, capabilities, and interests.

3.: Oral Communication
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use proper delivery tools, techniques and mechanics in oral presentations.

4.: Professional Behavior
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand and display characteristics and behaviors of a professional within the standards of the business community and norms of the environment in which they interact.

5.: Collaborative Skills/Teamwork
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Collaborate with persons from a variety of backgrounds, interests, and roles, while fostering an atmosphere of tolerance and fairness, and demonstrate effective work in teams in order to accomplish business related goals and objectives.

6.: Technical/Computer Skills
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective use of workplace productivity technology such as spreadsheet, word processing, presentation, and database software, as well as electronic communication technology tools such as email, Internet, instant messenger, discussion groups and other Blackboard tools.

7.: Ethics
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand and identify ethical issues in contemporary business practice, and analyze, evaluate and take a position on an ethical issue in contemporary business practice.
8.: Decision Making in Complex Environments
Providing Department: Bachelor of Arts (B.A.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze a business problem within complex environments affected by multiple facts, external influences, and multiple stakeholders with varying interests/agendas.

Bachelor of Science (B.S.) in Business Administration

1.: Critical Thinking
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate critical thinking abilities including the ability to apply appropriate information to solve the problem, make recommendations, and draw logical conclusions.

2.: Written Communication
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective written communication skills, so that the message is understood by individuals with diverse backgrounds, capabilities, and interests.

3.: Oral Communication
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use proper delivery tools, techniques and mechanics in oral presentations.

4.: Professional Behavior
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand and display characteristics and behaviors of a professional within the standards of the business community and norms of the environment in which they interact.

5.: Collaborative Skills/Teamwork
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Collaborate with persons from a variety of backgrounds, interests, and roles, while fostering an atmosphere of tolerance and fairness, and demonstrate effective work in teams in order to accomplish business related goals and objectives.

6.: Technical/Computer Skills
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective use of workplace productivity technology such as spreadsheet, word processing, presentation, and database software, as well as electronic communication technology tools such as email, Internet, instant messenger, discussion groups and other Blackboard tools.

7.: Ethics
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand and identify ethical issues in contemporary business practice, and analyze, evaluate and take a position on an ethical issue in contemporary business.
8.: Decision Making in Complex Environments
Providing Department: Bachelor of Science (B.S.) in Business Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze a business problem within complex environments affected by multiple facts, external influences, and multiple stakeholders with varying interests/agendas.

Business Minor
1.: Critical Thinking
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate critical thinking abilities including the ability to apply appropriate information to solve the problem, make recommendations, and draw logical conclusions.

2.: Written Communication
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective written communication skills, so that the message is understood by individuals with diverse backgrounds, capabilities, and interests.

3.: Oral Communication
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use proper delivery tools, techniques and mechanics in oral presentations.

4.: Professional Behavior
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand and display characteristics and behaviors of a professional within the standards of the business community and norms of the environment in which they interact.

5.: Collaborative Skills/Teamwork
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Collaborate with persons from a variety of backgrounds, interests, and roles, while fostering an atmosphere of tolerance and fairness, and demonstrate effective work in teams in order to accomplish business related goals and objectives.

6.: Technical/Computer Skills
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate effective use of workplace productivity technology such as spreadsheet, word processing, presentation, and database software, as well as electronic communication technology tools such as email, Internet, instant messenger, discussion groups and other Blackboard tools.
7. Ethics
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand and identify ethical issues in contemporary business practice, and analyze, evaluate and take a position on an ethical issue in contemporary business practice.

8. Decision Making in Complex Environments
Providing Department: Business Minor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Analyze a business problem within complex environments affected by multiple facts, external influences, and multiple stakeholders with varying interests/agendas.

School of Library and Information Science

1: Student Learning Outcomes
Providing Department: School of Library and Information Science
Start: 9/1/2013
End: 8/31/2016

Learning Outcome Description
Students who successfully complete the Master of Library and Information Science degree at the Wayne State University School of Library and Information Science will be able to:

1. Critically evaluate, synthesize, and disseminate information.
2. Understand how complex interactions between diverse users, societal factors, and information environments affect professional situations.
3. Facilitate access to, and use of, information resources between users and communities.
4. Apply multiple and emerging approaches to the organization of knowledge for varied literatures, records, and historical documents.
5. Articulate and advocate for the foundations of the profession and its basic values and ethics such as intellectual freedom, information access and dissemination, and apply these principles to the advancement of the profession.
6. Determine the significance of intellectual property, security, and privacy issues.
7. Assess, adopt, and utilize the most relevant information technologies.
8. Utilize current management and leadership theories and practices in the workplace.
9. Evaluate and apply library and information science research to problems of professional practice by employing theories, best practices, and assessment strategies to the range of information functions.
10. Practice professional engagement through leadership, service work, lifelong learning and community involvement.

Graduate Certificate in Archival Administration

1: GCAA Student Learning Outcome 1
Providing Department: Graduate Certificate in Archival Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Educate students on the foundations of thousands of years of work in this discipline. This includes history, theory, methodology and practice of the art of archival work.

2: GCAA Student Learning Outcome 2
Providing Department: Graduate Certificate in Archival Administration
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Empower the students based on coursework, tours and a practicum to develop analytical skills for the determination of both retention and organization of the historical record. This is especially complex with the expansion of analog and digital formats.

3: GCAA Student Learning Outcome 3
Providing Department: Graduate Certificate in Archival Administration
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Expose the students to the responsibilities of this profession including social, historical, ethical and legal areas.

4: GCAA Student Learning Outcome 4
Providing Department: Graduate Certificate in Archival Administration
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Embolden the students to continue research, publishing and development in the field.

Graduate Certificate in Information Management

1: GCIM Learning Outcome 1
Providing Department: Graduate Certificate in Information Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Utilize and assess technologies for the creation, production, manipulation, modeling, mining, analysis, control, distribution, access, and use of information.

2: GCIM Learning Outcome 2
Providing Department: Graduate Certificate in Information Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Leverage databases and large datasets to uncover and present insights that drive decision-making.

3: GCIM Learning Outcome 3
Providing Department: Graduate Certificate in Information Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Collaborate with organizations to present their products and services to their users and customers in the most accessible and useful manner.

4: GCIM Learning Outcome 4
Providing Department: Graduate Certificate in Information Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Apply usability principles and methods in assessing and designing information services and products for better user experiences.

5: GCIM Learning Outcome 5
Providing Department: Graduate Certificate in Information Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Analyze how information policies affect information creation, production, control, protection, distribution, access, use and evaluation in different socio-technical contexts.

6: GCIM Learning Outcome 6
Providing Department: Graduate Certificate in Information Management
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
- Develop independent learning skills and appreciate the need for lifelong learning of information technologies.

Graduate Certificate in Public Library Services to Children and Young Adults
1: PLSC&YA Student Learning Outcome 1
Providing Department: Graduate Certificate in Public Library Services to Children and Young Adults
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• Develop effective programs and outreach services for children and young adults in public libraries.

2: PLSC&YA Student Learning Outcome 2
Providing Department: Graduate Certificate in Public Library Services to Children and Young Adults
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• Create appropriate collections, both print and electronic, for children and young adults in public libraries.

3: PLSC&YA Student Learning Outcome 3
Providing Department: Graduate Certificate in Public Library Services to Children and Young Adults
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• Collaborate with community agencies, such as schools, social services and health organizations, to provide needed instruction and support for children and young adults.

Master of Library and Information Science

1: MLIS Learning Outcome 1
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
• Critically evaluate, synthesize, and disseminate information.

2: MLIS Learning Outcome 2
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Understand how complex interactions between diverse users, societal factors, and information environments affect professional situations.

3: MLIS Learning Outcome 3
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Facilitate access to, and use of, information resources between users and communities.

4: MLIS Learning Outcome 4
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Apply multiple and emerging approaches to the organization of knowledge for varied literatures, records, and historical documents.

5: MLIS Learning Outcome 5
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Articulate and advocate for the foundations of the profession and its basic values and ethics such as intellectual freedom, information access and dissemination, and apply these principles to the advancement of the profession.
6: MLIS Learning Outcome 6
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Determine the significance of intellectual property, security, and privacy issues.

7: MLIS Learning Outcome 7
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Assess, adopt, and utilize the most relevant information technologies.

8: MLIS Learning Outcome 8
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Utilize current management and leadership theories and practices in the workplace.

9: MLIS Learning Outcome 9
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Evaluate and apply library and information science research to problems of professional practice by employing theories, best practices, and assessment strategies to the range of information functions.

10: MLIS Learning Outcome 10
Providing Department: Master of Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Practice professional engagement through leadership, service work, lifelong learning and community involvement.

Specialist Certificate in Library and Information Science

1: Specialist Certificate: Learning Outcome 1
Providing Department: Specialist Certificate in Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate advanced or extended competence in areas of specialization in a particular area of librarianship or information studies begun during the first professional degree program (MLIS) or develop a new specialized competence responsive to the changing economic, technological, or social climate or to changing conditions in the life of the individual information professional.

2: Specialist Certificate: Learning Outcome 2
Providing Department: Specialist Certificate in Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate up-to-date knowledge in the rapidly-changing field of librarianship and information management: the organization, storage, retrieval, and dissemination of the human record.

3: Specialist Certificate: Learning Outcome 3
Providing Department: Specialist Certificate in Library and Information Science
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Use investigative methods and research findings in problem-solving and in the planning and evaluation of library and information services.
School of Medicine

Anatomy & Cell Biology/ANA

**MS- Anatomy & Cell Biology**

- **LO1: Mastery of Subject Material**
  - **Providing Department:** MS- Anatomy & Cell Biology
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  LO1: The student will demonstrate mastery of all subject material related to the program curriculum and thesis project.

- **LO2: Technical Skill Development**
  - **Providing Department:** MS- Anatomy & Cell Biology
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  LO2: The student will develop technical skills to conduct research in an ethical and professional manner.

PhD-Anatomy & Cell Biology/ANA

- **LO1: Contribute to Scientific Knowledge**
  - **Providing Department:** PhD-Anatomy & Cell Biology/ANA
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  LO1- The student will be expected to produce and defend an original significant contribution to scientific knowledge.

- **LO2: Mastery of Subject Material**
  - **Providing Department:** PhD-Anatomy & Cell Biology/ANA
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  LO2: The student will demonstrate mastery of all subject material related to program curriculum and dissertation project.

- **LO3: Ethical Conduct in Science**
  - **Providing Department:** PhD-Anatomy & Cell Biology/ANA
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  LO3: The student will learn to conduct scholarly activities in an ethical manner, following the principles of the scientific process.

- **LO4: Effective Communication**
  - **Providing Department:** PhD-Anatomy & Cell Biology/ANA
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  LO4: The student will learn to effectively communicate scientific material publically in both written and oral formats.

Associated WSU GRADUATE SCHOOL (GS) academic units

Center for Molecular Medicine & Genetics/ING

**MS-Genetic Counseling/GCO**

- **Outcome 1.1 Domain I : Genetics Expertise and Analysis: Family History**
  - **Providing Department:** MS-Genetic Counseling/GCO
  - **Start:** 9/1/2014
  - **End:** 8/31/2015

  **Learning Outcome Description**
  From the Accreditation Council of Genetic Counseling Practice-Based Competencies, required of genetic counseling graduate students.
Through coursework and robust clinical experiences, demonstrate a depth and breadth of genomics knowledge through the ability to construct relevant, targeted, and comprehensive personal and family medical histories and pedigrees.

**Outcome 1.2 Domain I: Genetics Expertise and Analysis: Genetic Risk Assessment**
Providing Department: MS-Genetic Counseling/GCO
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
*From the Accreditation Council of Genetic Counseling Practice Based Competencies*

Through coursework and robust clinical experiences, demonstrate a depth and breadth of genomics knowledge through the ability to assess individuals' and their relatives' probability of conditions with a genetic component or carrier status based on pedigree, test result(s), and other pertinent information.

**Outcome 1.3 Domain I: Genetics Expertise and Analysis: Genetic Testing**
Providing Department: MS-Genetic Counseling/GCO
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Through coursework and robust clinical experiences, demonstrate a depth and breadth of genomics knowledge through the ability to identify, assess, and facilitate genomic testing.

**Outcome 1.4 Domain I: Genetics Expertise and Analysis: Case Management**
Providing Department: MS-Genetic Counseling/GCO
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Through coursework and robust clinical experiences, demonstrate a depth and breadth of genomics knowledge through the ability to execute successful case management.

**Outcome 2.1 Domain II: Interpersonal, Psychosocial, and Counseling Skills: Contracting**
Providing Department: MS-Genetic Counseling/GCO
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
*From the Accreditation Council of Genetic Counseling Practice Based Competencies*

Demonstrate the ability to contract: to establish rapport, develop a mutually agreed upon genetic counseling agenda and to modify the agenda as needed to address emerging concerns.

**Outcome 2.2 Domain II: Interpersonal, Psychosocial and Counseling Skills: Active Listening and Interviewing**
Providing Department: MS-Genetic Counseling/GCO
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
*From the Accreditation Council of Genetic Counseling Practice Based Competencies*

Employ active listening skills and interviewing skills to identify, assess, and empathically respond to stated and emerging concerns.

**Outcome 2.3 Domain II: Interpersonal, Psychosocial and Counseling Skills: Decision Making and Adaptation**
Providing Department: MS-Genetic Counseling/GCO
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Use a range of genetic counseling skills and models of practice to facilitate informed decision making and adaptation to risk.
**Outcome 3.1 Domain III: Education: Patient Education**

_Providing Department:_ MS-Genetic Counseling/GCO  
_Start:_ 9/1/2014  
_End:_ 8/31/2015  

**Learning Outcome Description**  
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Effectively educate clients about a wide range of genetics and genomics information based on their needs, their characteristics, and the circumstances of the encounter.

**Outcome 3.2 Domain III: Education: Written Documentation of the Genetic Counseling Encounter**

_Providing Department:_ MS-Genetic Counseling/GCO  
_Start:_ 9/1/2014  
_End:_ 8/31/2015  

**Learning Outcome Description**  
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Compose clear, comprehensive and accurate written clinical summaries that are tailored to the health literacy of the intended audience and comply with medical documentation and confidentiality requirements.

**Outcome 3.3 Domain III: Education: Presentation Skills**

_Providing Department:_ MS-Genetic Counseling/GCO  
_Start:_ 9/1/2014  
_End:_ 8/31/2015  

**Learning Outcome Description**  
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Design and deliver presentations on genetics, genomics, and genetic counseling issues that demonstrate core components of effective presentations and are tailored to the intended audience.

**Outcome 4.1 Domain IV: Professional Development and Practice: Ethical, Legal, and Philosophical Principles and Values**

_Providing Department:_ MS-Genetic Counseling/GCO  
_Start:_ 9/1/2014  
_End:_ 8/31/2015  

**Learning Outcome Description**  
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Act in accordance with ethical, legal, and philosophical principles and values of the genetic counseling profession and the policies of one's institution or organization.

**Outcome 4.2 Domain IV: Professional Development and Practice: Self-Reflective Practice**

_Providing Department:_ MS-Genetic Counseling/GCO  
_Start:_ 9/1/2014  
_End:_ 8/31/2015  

**Learning Outcome Description**  
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*

Demonstrate a self-reflective approach to genetic counseling practice through recognizing one's limitations and capabilities in the context of genetic counseling practice, seeking feedback and responding to performance critique, and accepting responsibility for one's physical and emotional health as it impacts performance.

**Outcome 4.3 Domain IV: Professional Development and Practice: Evidence-Based Practice**

_Providing Department:_ MS-Genetic Counseling/GCO  
_Start:_ 9/1/2014  
_End:_ 8/31/2015  

**Learning Outcome Description**  
*From the Accreditation Council of Genetic Counseling Practice-Based Competencies*
Demonstrate an evidence-based and current approach to genetic counseling practice with a concomitant commitment to lifelong learning.

**Outcome 5 Research : Genetic Counseling Research**
**Providing Department:** MS-Genetic Counseling/GCO  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**
Produce an original contribution to the genetic counseling literature through secondary data analysis or original study.

Students achieve this objective through a Plan B project. The Graduate School defines the Plan B requirement as an essay that "shows evidence of scholarly study and writing and be related to the student’s major." The genetic counseling program stipulates that the project should also involve formulating and testing a research question or hypothesis (modified Plan B). Examples of student projects might include the following: a report on a small series of cases which illustrates a novel concept or answers a specific question; the evaluation of an innovative educational tool, screening tool, or counseling strategy; analysis and interpretation of data from an existing research project or database to answer a new question; or generation of new data followed by analysis and interpretation to answer an original question. A comprehensive literature review might also be appropriate if it hypothesis driven (such as a meta-analysis of existing research on a topic).

**MS-Molecular Biology & Genetics/MBG**

**1: Molecular Biology and Genetics MS Learning Outcome 1**
**Providing Department:** MS-Molecular Biology & Genetics/MBG  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**
Students will demonstrate a working knowledge of biomedical research as it pertains to human genetic diseases, molecular genetics, genomics and computational biology.

**2: Molecular Biology and Genetics MS Learning Outcome 2**
**Providing Department:** MS-Molecular Biology & Genetics/MBG  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**
Students will plan and execute experiments that test an original hypothesis.

**3: Molecular Biology and Genetics MS Learning Outcome 3**
**Providing Department:** MS-Molecular Biology & Genetics/MBG  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**
Students will assist in writing manuscripts that include their research for publication in peer-reviewed scientific journals.

**PhD-Molecular Biology & Genetics/MBG**

**1.0: Molecular Biology and Genetics PhD Learning Outcome 1.0**
**Providing Department:** PhD-Molecular Biology & Genetics/MBG  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**
Students will demonstrate a comprehensive knowledge of human genetic diseases, molecular genetics, genomics and computational biology.

**2.0: Molecular Biology and Genetics PhD Learning Outcome 2.0**
**Providing Department:** PhD-Molecular Biology & Genetics/MBG  
**Start:** 9/1/2014  
**End:** 8/31/2015

**Learning Outcome Description**
To develop within each student the approach to scientific thinking and exploration needed for original research as an independent investigator in molecular genetics and genomics.
3.0: Molecular Biology and Genetics PhD Learning Outcome 3.0
Providing Department: PhD-Molecular Biology & Genetics/MBG
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Prepare students for research careers in academia, industry or government.

4.0: Molecular Biology and Genetics PhD Learning Outcome 4.0
Providing Department: PhD-Molecular Biology & Genetics/MBG
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will plan and execute experiments that test an original hypothesis formulated by them.

Institute of Environmental Health Sciences/ING
MS-Molecular & Cellular Toxicology/MCT

LO1, LO2, LO3, LO4: MS-Molecular & Cellular Toxicology
Providing Department: MS-Molecular & Cellular Toxicology/MCT
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Students will have a sound knowledge foundation in the general areas of biochemistry, cell biology, molecular biology, and toxicology. Furthermore, the students will gain understanding in the fundamental biological processes as they relate to environmentally-induced diseases.
2. Students will be able to critically review the literature and appropriately integrate diverse pieces of information that are directly related to their specific areas of research.
3. Students will understand and be able to implement the "scientific methods" in their research.
4. Students will develop effective writing and oral communication skills.

PhD-Molecular & Cellular Toxicology/MCT

1.: PhD - Molecular & Cellular Toxicology/MCT
Providing Department: PhD-Molecular & Cellular Toxicology/MCT
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1. Students will have a sound knowledge foundation in the general areas of biochemistry, cell biology, molecular biology, genomics, proteomics, and toxicology. Furthermore, the students will have a basic understanding in the fundamental biological processes as they relate to environmentally-induced diseases.

2.: PhD - Molecular & Cellular Toxicology/MCT
Providing Department: PhD-Molecular & Cellular Toxicology/MCT
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
2. Students will be able to critically review the literature and appropriately integrate diverse pieces of information that are directly and peripherally related to their specific areas of research.

3.: PhD - Molecular & Cellular Toxicology/MCT
Providing Department: PhD-Molecular & Cellular Toxicology/MCT
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
3. Students will understand and be able to implement the "scientific methods" in their research, acquire the sets of technical skills that are necessary to address the research questions being asked, and are able to analyze and present data appropriately.

4.: PhD - Molecular & Cellular Toxicology/MCT
Providing Department: PhD-Molecular & Cellular Toxicology/MCT
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
4. Students will develop effective writing and oral communication skills, participate confidently in scientific discourse with peers and more senior scientists at scientific meetings and other forums. Furthermore, the students will be able to work independently but also as a member of a team.
Biochemistry & Molecular Biology/BCH

MS- Biochemistry & Molecular Biology/BMB

1: Master of Science in Biochemistry and Molecular Biology
Providing Department: MS- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1
- To learn core concepts in biochemistry, including protein, nucleic acid and membrane structure and function, intermediary metabolism and the signal transduction pathways that regulate and coordinate cellular function.
- To learn core concepts molecular biology including recombinant DNA methods, DNA replication and repair, RNA synthesis and processing and the regulation of gene expression.
- Performance on exams in the required course, writing and problem solving assignments, writing a research plan for the thesis research, oral presentations at the ends of each semester to a thesis committee, writing and orally defending the final thesis to a thesis committee.

2: Master of Science in Biochemistry and Molecular Biology
Providing Department: MS- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2
- To learn how to access and critically evaluate the scientific literature, online resources and data bases.
- Performance of annual Journal Club presentations, participation in discussions of these presentations, written thesis research plan, writing and defending the thesis.
- To integrate the knowledge obtained through course work and the literature with critical thinking to solve problems.
- Adviser and thesis committee assessments of performance in the independent studies and dissertation research.
- To develop oral communication skills.
- Journal club presentations, presentation of the research in thesis committee presentations each semester and at the final defense, and presentation of posters at local or national scientific meetings.
- To develop written communication skills.
- Writing the research plan and the final thesis, and writing scientific publications with the adviser.

3: Master of Science in Biochemistry and Molecular Biology
Providing Department: MS- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO3
- To develop an understanding of the scientific method and research skills by conducting original research.
- A methods-oriented introductory required course rotations, which includes hands-on lab exercises and demonstrations, and the major program requirement of original research for the thesis.

PhD- Biochemistry & Molecular Biology/BMB

LO1: Knowledge of biochemistry & molecular and cellular biology
Providing Department: PhD- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO1: To ensure that the student will have an advanced, up to date knowledge of biochemistry, molecular and cellular biology upon completion of the Ph.D. degree.

LO2: Ability to evaluate scientific literature
Providing Department: PhD- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
LO2: To learn how to access and critically evaluate the scientific literature, online resources and databases.
LO3: Learn and apply the scientific method
Providing Department: PhD- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

LO3: To learn the scientific method include experiment design, execution and interpretation by conduction original research.

LO4: Learn and demonstrate effective oral communication skills
Providing Department: PhD- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

LO4: To learn effective oral communication skills in order to effectively report research results to students and other scientists.

LO5: Learn and demonstrate effective written communication skills
Providing Department: PhD- Biochemistry & Molecular Biology/BMB
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

LO5: To learn effective written communication skills for the preparation of manuscripts, grants and other reports.

Dean/MDD
GC-Clinical & Translational Science/CTS

1: Graduate Certificate in Clinical and Trans. Sci. /Bridge Program Learning Objective 1
Providing Department: GC-Clinical & Translational Science/CTS
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate an understanding of basic human biology and the pathology and treatment of human diseases as taught in the initial two years of their medical education.

2: Graduate Certificate in Clinical and Trans. Sci. /Bridge Program Learning Objective 2
Providing Department: GC-Clinical & Translational Science/CTS
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will utilize their basic science knowledge and clinical medicine skills to understand and participate in the design and execution of responsible clinical trials under the guidance of the clinical mentor/s.

3: Graduate Certificate in Clinical and Trans. Sci. /Bridge Program Learning Objective 3
Providing Department: GC-Clinical & Translational Science/CTS
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Physician scientists will apply their detailed understanding of pathological mechanisms to develop and apply novel/effective diagnoses, treatments, and trials for human disease.

4: Graduate Certificate in Clinical and Trans. Sci. /Bridge Program Learning Objective 4
Providing Department: GC-Clinical & Translational Science/CTS
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Specific learning objectives from medical and graduate programs will apply as each student progresses through the respective training venues.
1: MD/PHD-Dual Degree Program Learning Objective 1
Providing Department: MD/PHD-Dual Degree Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The students will demonstrate an understanding of basic medical science knowledge acquired during the first two years of medical school.

2: MD/PhD-Dual Degree Program Learning Objective 2
Providing Department: MD/PHD-Dual Degree Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The students will participate in at least two research rotations during the first two years of medical school and select a mentor and laboratory for their doctoral research training.

3: MD-PH-Dual Degree Program Learning Objective 3
Providing Department: MD/PHD-Dual Degree Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Each student will plan and execute a series of experiments that will test an original hypothesis and that will serve as the foundation for a submitted fellowship application.

4: MD-PH-Dual Degree Program Learning Objective 4
Providing Department: MD/PHD-Dual Degree Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Prior to their dissertation defense, each student will prepare one of more manuscripts, based on their research, for publication in peer reviewed journals of impact in their area of research.

MD-Medical Doctor

AB01: The ability to apply humanistic values in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
AB01: The ability to apply humanistic values in the delivery of health care.

AB02: The ability to work cooperatively with other health care workers in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
AB02: The ability to work cooperatively with other health care workers in the delivery of health care.

AB03: The ability to respect the patients’ dignity, privacy, and confidentiality in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
AB03: The ability to respect the patients’ dignity, privacy, and confidentiality in the delivery of health care.

AB04: The ability to effectively interact with patients, peers and other healthcare workers from diverse cultural backgrounds.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
AB04: The ability to effectively interact with patients, peers and other healthcare workers from diverse cultural backgrounds.
AB05: Recognize the need to engage in lifelong learning to stay abreast of relevant scientific advances.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
AB5: Recognize the need to engage in lifelong learning to stay abreast of relevant scientific advances.

AB06: The ability to recognize personal educational needs and to select and utilize appropriate learning resources.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
AB6: The ability to recognize personal educational needs and to select and utilize appropriate learning resources.

K01: Knowledge of the normal structure of the human body (cell tissues and organs).
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
K1: Knowledge of the normal structure of the human body (cell tissues and organs).

K02: Knowledge of the normal function of the human body (cell tissues and organs).
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
K2: Knowledge of the normal function of the human body (cell tissues and organs).

K03: Knowledge of the nature of agents and mechanisms that produce alterations in structure and function of the body.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
K3: Knowledge of the nature of agents and mechanisms that produce alterations in structure and function of the body.

K04: Knowledge of the nature and course of alterations in function produced by etiological agents and mechanisms (Pathophysiology) of the body.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
K4: Knowledge of the nature and course of alterations in function produced by etiological agents and mechanisms (Pathophysiology) of the body.

K05: Knowledge of the nature and course of alterations in function produced by etiological agents and mechanisms (Pathophysiology) of the body.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
K5: Knowledge of the nature and course of alterations in function produced by etiological agents and mechanisms (Pathophysiology) of the body.

K06: Knowledge of the appropriate use of laboratory techniques in identifying diseases or health problems.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
K6: Knowledge of the appropriate use of laboratory techniques in identifying diseases or health problems.
K07: Knowledge of the action, metabolism, and toxic effects of drugs.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
K6:
Knowledge of the action, metabolism, and toxic effects of drugs.

K08: Knowledge of the therapeutic use of drugs.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
K8: Knowledge of the therapeutic use of drugs.

K09: Knowledge of normal growth and development.
Providing Department: MD-Medical Doctor
Start: 9/1/2008
End: 6/30/2016

Learning Outcome Description
K9:
Knowledge of normal growth and development.

K10: Knowledge of the principles and concepts underlying normal behavior and mental illness.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
K10: Knowledge of the principles and concepts underlying normal behavior and mental illness.

K11: Knowledge of the aging process.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
k11: Knowledge of the aging process.

K12: Knowledge about relieving pain and ameliorating the suffering of patients.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
K12: Knowledge about relieving pain and ameliorating the suffering of patients.

K13: Knowledge of the health care delivery systems including social, economic and political dimensions.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
K13: Knowledge of the health care delivery systems including social, economic and political dimensions.

K14: An understanding of the need and value of consultations and referrals in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
K14:
An understanding of the need and value of consultations and referrals in the delivery of health care.
S01: The ability to perform a satisfactory physical exam.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S1: The ability to perform a satisfactory physical exam.

S02: The ability to take a satisfactory medical history including psychosocial, nutritional, occupational and sexual dimensions.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S2: The ability to take a satisfactory medical history including psychosocial, nutritional, occupational and sexual dimensions.

S03: The ability to utilize data from the history, physical exam and laboratory evaluations to identify the health problem.
Providing Department: MD-Medical Doctor
Start: 6/30/2008
End: 7/1/2016

Learning Outcome Description
S3: The ability to utilize data from the history, physical exam and laboratory evaluations to identify the health problem.

S04: The ability to formulate an appropriate differential diagnosis.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S4: The ability to formulate an appropriate differential diagnosis.

S05: The ability to formulate effective management plans (diagnostic, treatment, and prevention strategies) for diseases and other health problems.
Providing Department: MD-Medical Doctor
Start: 6/30/2008
End: 7/1/2016

Learning Outcome Description
S5: The ability to formulate effective management plans (diagnostic, treatment, and prevention strategies) for diseases and other health problems.

S06: The ability to monitor the course of illnesses and to appropriately revise the management plan.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S6: The ability to monitor the course of illnesses and to appropriately revise the management plan.

S07: The ability to perform routine technical procedures specified by the medical school and clerkship.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S7: The ability to perform routine technical procedures specified by the medical school and clerkship.

S08: The ability to document the clinical encounter.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S8: The ability to document the clinical encounter.

S09: The ability to apply the principles and concepts underlying normal behavior and mental illness.
Providing Department: MD-Medical Doctor
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
S9: The ability to apply the principles and concepts underlying normal behavior and mental illness.
S10: The ability to diagnose and participate in the management of mental illnesses.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S10: The ability to diagnose and participate in the management of mental illnesses.

S11: The ability to apply the therapeutic use of drugs in patient care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S11: The ability to apply the therapeutic use of drugs in patient care.

S12: The ability to recognize normal growth and development.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S12: The ability to recognize normal growth and development.

S13: The ability to recognize the relationship between health and illness, the patient and the patient's environment.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S13: The ability to recognize the relationship between health and illness, the patient and the patient's environment.

S14: The ability to apply psychosocial principles and concepts in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S14: The ability to apply psychosocial principles and concepts in the delivery of health care.

S15: The ability to apply preventive and health maintenance principles and techniques in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S15: The ability to apply preventive and health maintenance principles and techniques in the delivery of health care.

S16: The ability to apply the appropriate use of laboratory methods in identifying diseases or health problems.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S16: The ability to apply the appropriate use of laboratory methods in identifying diseases or health problems.

S17: The ability to recognize patients with immediately life threatening conditions.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016

Learning Outcome Description
S17: The ability to recognize patients with immediately life threatening conditions.
S18: The ability to apply Translational Medicine principles to clinical decision making.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S18: The ability to apply Translational Medicine principles to clinical decision making.

S19: The ability to demonstrate effective physician-patient interaction skills.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S19: The ability to demonstrate effective physician-patient interaction skills.

S20: The ability to utilize appropriate communication skills to obtain a history, diagnosis, and deliver an effective treatment plan to patients.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S20: The ability to utilize appropriate communication skills to obtain a history, diagnosis, and deliver an effective treatment plan to patients.

S21: The ability to effectively communicate with peers and members of the healthcare team in the care of patients and their families.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S21: The ability to effectively communicate with peers and members of the healthcare team in the care of patients and their families.

S22: The ability to apply the concepts and principles of primary care and Family Medicine in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S22: The ability to apply the concepts and principles of primary care and Family Medicine in the delivery of health care.

S23: The ability to apply cost containment principles and techniques in the delivery of health care.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S23: The ability to apply cost containment principles and techniques in the delivery of health care.

S24: The ability to critically appraise the medical literature.
Providing Department: MD-Medical Doctor
Start: 7/1/2008
End: 6/30/2016
Learning Outcome Description
S24: The ability to critically appraise the medical literature.

MS-Basic Medical Sciences/BMS

1: Outcome 1: Mastery of biomedical topics
Providing Department: MS-Basic Medical Sciences/BMS
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To demonstrate mastery of core biomedical subject matter in four different areas.
**2: Outcome 2: Literature survey in scholarship**
Providing Department: MS-Basic Medical Sciences/BMS
Start: 9/1/2014
End: 8/31/2015

**Learning Outcome Description**
Students will master the skills of searching the literature on a biomedical topic of their choice, studying the information obtained and preparing a written review of the topic summarizing the state of the art.

**MS-Medical Research/MEDR**

**1: Outcome 1: Application of Statistics to Biomedical Research**
Providing Department: MS-Medical Research/MEDR
Start: 9/1/2014
End: 8/31/2015

**Learning Outcome Description**
Students will understand how to apply and interpret statistical tests to biomedical data.

**2: Outcome 2: Research Skills**
Providing Department: MS-Medical Research/MEDR
Start: 9/1/2014
End: 8/31/2015

**Learning Outcome Description**
Students will be able to design, execute and interpret state-of-the-art experiments in their discipline.

**Family Medicine & Public Health Sciences/FMPH**

**GC-Public Health Practice/PHP**

**1: Program Outcome #1: Health Communication Skills**
Providing Department: GC-Public Health Practice/PHP
Start: 9/1/2014
End: 8/31/2016

**Learning Outcome Description**
Program Outcome #3. Communicate public health principles and findings to professional and community audiences using a variety of media and methodologies.

Student competency is assessed by their skills in verbal communication in a role playing exercise and in working in interdisciplinary teams for the development and presentation of a workshop on global health issues for health professionals, and for the presentation of an environmental health-related problem and suitable intervention plans at a public town forum. The latter assessment is based on a self-reported answer to Q1 of the final examination. The ability to communicate to a multidisciplinary health professional audience is also assessed by the presentation of a poster, based on their individual roles in the Global Health Issues Workshop, and on a symposium presentation based on their individual project.

**2: Program Outcome #2: Scholarly Research and Analysis**
Providing Department: GC-Public Health Practice/PHP
Start: 9/1/2014
End: 8/31/2016

**Learning Outcome Description**
Program Outcome #2: Scholarly Research and Analysis: Student competency is assessed by their ability to conduct research of available internet and peer-reviewed resources, the subsequent evaluation and effective application in the development of briefing papers, their individual project paper, a poster on global health issues, and in supporting the completion of the final examination questions 2 and 3, designed to assess specific health concepts, mechanisms and populations at risk.

**MPH-Public Health/PH**

**1: Learning Outcome Core #1**
Providing Department: MPH-Public Health/PH
Start: 9/1/2014
End: 8/31/2016

**Learning Outcome Description**
Apply evidence-based knowledge from the following domains to understand and improve the health of the public:

- Behavioral and Social Sciences
- Biostatistics
- Epidemiology
- Environmental Health
- Health Care Organization
2.: Learning Outcome: Core 
  Providing Department: MPH-Public Health/PH
  Start: 9/1/2014
  End: 8/31/2016

Learning Outcome Description
1. Use appropriate research and analytical strategies to address public health issues.

Immunology & Microbiology/IMM

MS- Immunology & Microbiology/IMM

1: Fundamental Principles - M.S.
  Providing Department: MS- Immunology & Microbiology/IMM
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will understand the fundamental principles of immunology, microbiology and virology and will be able to read and evaluate the current scientific literature in these disciplines.

2: Research Skills - M.S.
  Providing Department: MS- Immunology & Microbiology/IMM
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will be able to design, execute and interpret state-of-the-art experiments in their discipline.

PhD- Immunology & Microbiology/IMM

1: Fundamental Principles - Ph.D.
  Providing Department: PhD- Immunology & Microbiology/IMM
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will understand the fundamental principles of immunology, microbiology and virology and will be able to read and evaluate the current scientific literature in these disciplines.

2: Research Skills - Ph.D.
  Providing Department: PhD- Immunology & Microbiology/IMM
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will be able to design, execute and interpret state-of-the-art experiments in their discipline.

Oncology/ONC

MS-Cancer Biology/CB

1: Outcome 1: Scholarship
  Providing Department: MS-Cancer Biology/CB
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
To produce evidence of scholarship in cancer biology.

2: Outcome 2: Mastery of a Cancer Biology Field
  Providing Department: MS-Cancer Biology/CB
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
To demonstrate mastery of cancer biology in relation to an area of specialization.
3: Outcome 3: Ethics in Research
Providing Department: MS-Cancer Biology/CB
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To conduct original scholarly research in cancer biology in an ethical manner.

PhD-Cancer Biology/CB

1: Outcome 1: Original Research
Providing Department: PhD-Cancer Biology/CB
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To generate and defend a significant body of original research in cancer biology.

2: Outcome 2: Mastery of Cancer Biology
Providing Department: PhD-Cancer Biology/CB
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To demonstrate mastery of cancer biology in relation to an area of specialization

3: Outcome 3: Ethics in Research
Providing Department: PhD-Cancer Biology/CB
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
To conduct original scholarly research in cancer biology in an ethical manner

Pathology/PTH

PhD-Pathology/PATH

1: Develop Knowledge base and skill set
Providing Department: PhD-Pathology/PATH
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Develop the knowledge-base, basic methodological skills, state-of-the-art investigative techniques, and advanced experimental approaches to enable students to elucidate mechanisms of disease.

2: Communication skills
Providing Department: PhD-Pathology/PATH
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
1. Learn to communicate effectively on all aspects of the experimental science endeavor. This includes defense of experimental design strategy and rationale as it relates to the development of research proposals, as well as the analysis, interpretation and presentation of research results as it relates to the dissemination of scientific knowledge (i.e. published papers and public presentations).

Pharmacology/PHC

PhD-Pharmacology/PHA

1: general education
Providing Department: PhD-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
PROGRAM LEARNING GOALS
1. The students shall demonstrate an understanding of biomedical research and a thorough knowledge of basic pharmacology.
2.: literature
Providing Department: PhD-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1.
2. The students shall be aware of the current literature in pharmacology and related sciences.

3.: research
Providing Department: PhD-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1.
2.
3. The students shall plan and execute a series of experiments that will test an original hypothesis.

4.: oral communication
Providing Department: PhD-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1.
2.
3.
4. The students shall be able to present their research to an audience of professionals.

5.: written communication: grants
Providing Department: PhD-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1.
2.
3.
4.
5. The students shall be able to write grants to support their research.

6.: written communication: manuscripts
Providing Department: PhD-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
1.
2.
3.
4.
5.
6. The students shall be able to write manuscripts based on their research for publication in well-recognized journals.

MS-Pharmacology/PHA

1.: education
Providing Department: MS-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The students shall demonstrate an understanding of biomedical research and a thorough knowledge of basic pharmacology.

2.: literature
Providing Department: MS-Pharmacology/PHA
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The students shall be aware of the current literature in pharmacology and related sciences.

3.: research
  Providing Department: MS-Pharmacology/PHA
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
The students shall plan and execute a series of experiments that will test an original hypothesis.

4.: oral communication
  Providing Department: MS-Pharmacology/PHA
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
The students shall be able to present their research to an audience of professionals.

5.: written communication
  Providing Department: MS-Pharmacology/PHA
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
The students shall contribute to manuscripts involving their research for publication in well-recognized journals.

Physiology/PSL
MS-Physiology/PHL

1.0: Learning Outcome - Knowledge of Physiologic Principles
  Providing Department: MS-Physiology/PHL
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will be familiar with core concepts in cell & organ systems physiology.

2.0: Learning Outcome - Identify and critically assess literature
  Providing Department: MS-Physiology/PHL
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will be able to identify and critically access the literature in their field of study.

3.0: Learning Outcome - Hypothesis formulation and experimental design
  Providing Department: MS-Physiology/PHL
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will demonstrate that they are capable of formulating testable hypotheses in molecular, cellular, or organ systems physiology.

4.0: Learning Outcome - Laboratory techniques expertise
  Providing Department: MS-Physiology/PHL
  Start: 9/1/2014
  End: 8/31/2015

Learning Outcome Description
Students will attain expertise in laboratory techniques relevant to their field of study in physiology.

5.0: Learning Outcome - Oral and written communication skills
  Providing Department: MS-Physiology/PHL
  Start: 9/1/2014
  End: 8/31/2015
Learning Outcome Description
Students should be able to effectively present their work orally and in written form to scientists.

PhD-Physiology/PHL

1.0: Learning Outcome - Physiological principles and mechanisms
Providing Department: PhD-Physiology/PHL
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcomes and Assessment
1. Students will be familiar with core concepts in cell & organ systems physiology.

2.0: Learning Outcome - Current concepts and literature assessment
Providing Department: PhD-Physiology/PHL
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will be able to identify current concepts in their field and critically assess the literature.

3.0: Learning Outcome - Hypotheses formulation and experimental design
Providing Department: PhD-Physiology/PHL
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will demonstrate that they are capable of formulating testable hypotheses in molecular, cellular, or organ systems physiology.

4.0: Learning Outcome - Laboratory expertise
Providing Department: PhD-Physiology/PHL
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will attain expertise in laboratory techniques relevant to their field of study in physiology.

5.0: Learning Outcome - Oral and written communication skills
Providing Department: PhD-Physiology/PHL
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students should be able to orally communicate their work in physiology to the educated lay public.

6.0: Learning Outcome - Ethics and scientific strategies
Providing Department: PhD-Physiology/PHL
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students need to learn to conduct their work in an ethical manner and how to respond when confronted with compromising behavior of others.

Psychiatry & Behavioral Neurosciences/PBN

PhD-Translational Neurosciences/TNP

Learning Outcome 1: Didactic Curriculum
Providing Department: PhD-Translational Neurosciences/TNP
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Through a diverse didactic curriculum, students will gain knowledge and understanding of basic sciences related to the neurobiology of the nervous system, brain disorders, diseases and injuries, the fundamentals of neuroimaging techniques, and statistical approaches to modeling research data.
Learning Outcome 2: Skills at Communicating and Critiquing Science
Providing Department: PhD-Translational Neurosciences/TNP
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will learn and develop the skills in communicating orally and in writing, critiquing and challenging basic and clinical research results through journal club and seminar participation, and oral and poster presentation of research (e.g., at local, national and international scientific meetings, and TNP seminars).

Learning Outcome 3: Advanced Proficiency in Knowledge in a Research Area of Interest
Providing Department: PhD-Translational Neurosciences/TNP
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will gain advanced knowledge in basic, translational and clinical neuroscience as well as gain expertise in a particular research area of interest. With guidance from advisor and advisory committee, students will design, develop and write a dissertation research prospectus in the form of a research grant proposal with testable hypotheses and experimental approach.

Learning Outcome 4: Dissertation Research Project
Providing Department: PhD-Translational Neurosciences/TNP
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
With guidance from advisor and advisory committee, students are expected to conduct graduate-level research and exhibit advanced knowledge and mastery within their chosen research interest.

Radiation Oncology
Graduate Certificate in Medical Physics

1: Understanding of the Fundamentals of Radiological Physics
Providing Department: Graduate Certificate in Medical Physics
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
We intend to provide students with a thorough understanding of the fundamentals of radiological physics, along with the underlying physics and mathematical principles, as well as an understanding of how these fundamental principles are related to the practical application of radiological principles in medicine.

2: Understanding the Clinical Application of Medical Physics Principles
Providing Department: Graduate Certificate in Medical Physics
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
We intend to provide students with a thorough understanding of the practice of clinical medical physics within Radiation Oncology, Diagnostic Imaging, and Nuclear Medicine as well as how fundamental physics principles are applied to these clinical practices and opportunities for practical hands-on experience.

MS-Radiological Physics/RADP

1: Understanding of the Fundamentals of Radiological Physics
Providing Department: MS-Radiological Physics/RADP
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
We intend to provide students with a thorough understanding of the fundamentals of radiological physics, along with the underlying physics and mathematical principles, as well as an understanding of how these fundamental principles are related to the practical application of radiological principles in medicine.

2: Understanding the Clinical Application of Medical Physics Principles
Providing Department: MS-Radiological Physics/RADP
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
We intend to provide students with a thorough understanding of the practice of clinical medical physics within Radiation Oncology, Diagnostic Imaging, and Nuclear Medicine as well as how fundamental physics principles are applied to these clinical practices and opportunities for practical hands-on experience.
PhD-Medical Physics/MP

1: Understanding of the Fundamentals of Radiological Physics
Providing Department: PhD-Medical Physics/MP
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
We intend to provide students with a thorough understanding of the fundamentals of radiological physics, along with the underlying physics and mathematical principles, as well as an understanding of how these fundamental principles are related to the practical application of radiological principles in medicine.

2: Understanding the Clinical Application of Medical Physics Principles
Providing Department: PhD-Medical Physics/MP
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
We intend to provide students with a thorough understanding of the practice of clinical medical physics within Radiation Oncology, Diagnostic Imaging, and Nuclear Medicine as well as how fundamental physics principles are applied to these clinical practices and opportunities for practical hands-on experience.

School of Social Work

Bachelors of Social Work

1: Identify as a professional social worker
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 1: Identify as a professional social worker and conduct oneself accordingly.

2: Apply social work principles
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 2: Apply social work principles to guide professional practice.

3: Critical thinking
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 3: Apply critical thinking to inform and communicate professional judgment.

4: Diversity in practice
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 4: Engage diversity and difference in practice.

5: Human rights and social & economic justice
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 5: Advance human rights and social and economic justice.

6: Research
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015
7: Human behavior and social environment
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 7: Apply knowledge of human behavior and the social environment.

8: Policy engagement
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 8: Engage in policy proactive to advance social and economic wellbeing and to deliver effective social work services.

9: Respond to contexts
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 9: Respond to contexts that shape practice.

10: Engage, assess, intervene, and evaluate
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 10: Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

11: Analyze impact of urban context
Providing Department: Bachelors of Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 11: Analyze the impact of the urban context on a range of client systems including practice implications.

Bachelors of Social Work ◆ Where Online Works (WOW)!

1: Identify as a professional social worker
Providing Department: Bachelors of Social Work ◆ Where Online Works (WOW)!
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 1: Identify as a professional social worker and conduct oneself accordingly.

2: Social work principles
Providing Department: Bachelors of Social Work ◆ Where Online Works (WOW)!
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 2: Apply social work principles to guide professional practice.
3: Critical thinking
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 3: Apply critical thinking to inform and communicate professional judgment.

4: Diversity in practice
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 4: Engage diversity and difference in practice.

5: Human rights and social & economic justice
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 5: Advance human rights and social and economic justice.

6: Research
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 6: Engage in research informed practice and practice informed research.

7: Human behavior and social environment
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 7: Apply knowledge of human behavior and the social environment.

8: Policy engagement
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 8: Engage in policy proactive to advance social and economic wellbeing and to deliver effective social work services.

9: Respond to contexts
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 9: Respond to contexts that shape practice.

10: Engage, assess, intervene, and evaluate
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 10: Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

11: Analyze impact of urban context
Providing Department: Bachelors of Social Work & Where Online Works (WOW)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency 11: Analyze the impact of the urban context on a range of client systems including practice implications.
Doctorate

Clinical Scholarship Track (Ph.D. in Social Work)

1: Theory
Providing Department: Clinical Scholarship Track (Ph.D. in Social Work)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Describe and appraise essential concepts in key bodies of advanced clinical social work theory.

2: Social Work Practice
Providing Department: Clinical Scholarship Track (Ph.D. in Social Work)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Demonstrate advanced competencies in application of advanced clinical social work practice principles to student’s own clinical case material.

3: Advanced competencies in clinical social work practice
Providing Department: Clinical Scholarship Track (Ph.D. in Social Work)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Demonstrate advanced competencies in advanced clinical social work practice.

Doctor of Philosophy in Social Work

1: Describe theory
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Describe and appraise essential concepts in key theories across micro, mezzo and macro levels of practice and research.

2: Assess theory
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Assess the value of major theories in understanding social work practice, social problems, human systems, human behavior.

3: Apply theory
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Understand and apply theory for research design and social work practice.

4: Qualitative/quantitative research
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Employ mastery of qualitative/quantitative and mixed methods research designs, including scientific theory supporting the design, to be ready to conduct research using these designs.

5: Observational vs. intervention research
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 5: Distinguish between observational vs. intervention/evaluation research designs.

6: Ethical issues related to research
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 6: Critique the ethical issues related to all designs and their application in urban practice and communities.

7: Apply data analysis
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 7: Students will apply the appropriate statistical tests and interpretation of results.

8: Qualitative data analysis
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 8: Appraise types of qualitative data analysis and be prepared to apply to appropriate research situations.

9: Computer applications for data analysis
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 9: Demonstrate proficiency in computer applications for data analysis.

10: Synthesis of research and practice literature
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 10: Review and synthesize research and practice literature that is relevant to a social work domain of knowledge.

11: Historical changes in practice
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 11: Identify historical changes in practice and policy for a social work field, including the trends in the fit with social work ethics and values.

12: Apply theoretical frameworks
Providing Department: Doctor of Philosophy in Social Work
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 12: Apply relevant theoretical frameworks to a domain of knowledge in social work.

Dual Title in Social Work and Infant Mental Health (Ph.D.)

1: Theory and research
Providing Department: Dual Title in Social Work and Infant Mental Health (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Synthesize knowledge about theories and research relevant to infant mental health practice, including pregnancy and early parenting, infant development, relationship-based practice, attachment, and disorders of infancy and early childhood.
2: IMH service delivery
Providing Department: Dual Title in Social Work and Infant Mental Health (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Demonstrate expertise related to the Infant Mental Health service delivery model and its use in clinical and classroom-based intervention and research

3: Practice interventions
Providing Department: Dual Title in Social Work and Infant Mental Health (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Provide evidence-based practice interventions to families and their infants who are experiencing complex risks.

4: Observation and assessment
Providing Department: Dual Title in Social Work and Infant Mental Health (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Demonstrate expertise in observation and assessment of infants/young children, caregivers, and caregiver-infant/young child relationships to identify capacities, risks, and relationship disturbances.

5: Research design
Providing Department: Dual Title in Social Work and Infant Mental Health (Ph.D.)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 5: Demonstrate competence in research design and methods relevant to the field of infant mental health.

Graduate Certificate in Social Welfare Research and Evaluation

1: Research design
Providing Department: Graduate Certificate in Social Welfare Research and Evaluation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Students will be able to select and implement research designs that are appropriate and adequate for answering contemporary social work practice and social welfare policy research questions.

2: Research methods
Providing Department: Graduate Certificate in Social Welfare Research and Evaluation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Students will be able to implement research methods including problem formulation, literature review, sample selection, sampling technique, formulation of design, development of instruments, data analysis, interpretation of results, and writing a research report.

Graduate Certificates

Certificate in Alcohol and Drug Abuse Studies (CADAS)

1: Apply social work principles
Providing Department: Certificate in Alcohol and Drug Abuse Studies (CADAS)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Apply social work ethical principles to guide professional practice.
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
</table>
| 2: Critical thinking | **Providing Department:** Certificate in Alcohol and Drug Abuse Studies (CADAS)  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 2:** Apply critical thinking to inform and communicate professional judgments. |
| 3: Diversity in practice | **Providing Department:** Certificate in Alcohol and Drug Abuse Studies (CADAS)  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 3:** Engage diversity and difference in practice- Research and apply knowledge of diverse populations (e.g., youth, women, older adults, racial and ethnic minorities, people of diverse sexual orientation, and individuals with co-occurring problems) to enhance client’s well-being. |
| 4: Human rights and social & economic justice | **Providing Department:** Certificate in Alcohol and Drug Abuse Studies (CADAS)  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 4:** Engage in policy practice to advance social and economic well-being and to deliver effective social work services. |
| 5: Engage, assess, intervene, and evaluate | **Providing Department:** Certificate in Alcohol and Drug Abuse Studies (CADAS)  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 5:** Engage, assess, intervene and evaluate with individuals, families, groups, organizations and communities- Demonstrate the use of appropriate clinical strategies for a range of concerns identified in the assessment. |
| 6: Analyze impact of urban context | **Providing Department:** Certificate in Alcohol and Drug Abuse Studies (CADAS)  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 6:** Analyze the impact of the urban context on a range of client systems, including practice implications. |

**Developmental Disabilities**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
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</table>
| 1: Apply social work principles | **Providing Department:** Developmental Disabilities  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 1:** Apply social work ethical principles to guide professional practice. |
| 2: Critical thinking | **Providing Department:** Developmental Disabilities  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 2:** Apply critical thinking to inform and communicate professional judgments. |
| 3: Diversity in practice | **Providing Department:** Developmental Disabilities  
**Start:** 9/1/2014  
**End:** 8/31/2015  
**Learning Outcome Description**  
**Outcome 3:** Engage diversity and difference in practice. |
4: Policy engagement
Providing Department: Developmental Disabilities
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 4: Engage in policy practice to advance social and economic well-being and to deliver effective social work services - Students will integrate knowledge of interdisciplinary practice, program design, research methods and service delivery analysis to facilitate program, practice and systemic change and improvement.

5: Engage, assess, intervene, and evaluate
Providing Department: Developmental Disabilities
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 5: Engage, assess, intervene and evaluate with individuals, families, groups, organizations, and communities.

6: Analyze impact of urban context
Providing Department: Developmental Disabilities
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 6: Analyze the impact of the urban context on a range of client systems, including practice implications - Students can identify the realities of living with disabilities in a complex, urban culture.

Gerontology

1: Evidence based knowledge
Providing Department: Gerontology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 1: Access and integrate evidence-based knowledge about the social and economic aspects of aging.

2: Integrate multi-disciplinary knowledge
Providing Department: Gerontology
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 2: Integrate multi-disciplinary knowledge of gerontology as it applies to an older adult living in the local urban context.

Social Work Practice with Families and Couples

1: Identify as a professional social worker
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 1: Identify as a professional social worker and conduct oneself accordingly.

2: Apply social work principles
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 2: Apply social work ethical principles to guide professional practice.

3: Critical thinking
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 3: Apply critical thinking to inform and communicate professional judgments.
4: Research
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Engage in research-informed practice and practice-informed research.

5: Human behavior and social environment
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 5: Apply knowledge of human behavior and the social environment- Utilize concepts and theories that explain a variety of family structures.

6: Respond to contexts
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 6: Respond to contexts that shape practice.

7: Engage, assess, intervene, and evaluate
Providing Department: Social Work Practice with Families and Couples
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 7: Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities- Develop practice skills to intervene with multi-problem families.

Temporary Approval for Michigan School Social Workers (Certificate

1: Theoretical foundations
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 1: Knowledge of theoretical foundations and history of the school social work profession and service delivery.

2: Legal and ethical standards
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 2: Knowledge of legal and ethical standards necessary for social work practice in school setting.

3: Special education law
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 3: Knowledge of federal and state special education laws and other legal aspects of the role of school social worker.

4: Organization and structural components
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Outcome 4: Knowledge of organization components and structural dynamic of public school agencies at local, state, and national levels, as well as identification of methods useful to analyze and influence these in order to maximize student success.
5: Collaboration
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 5: Knowledge of other professional educational roles to promote successful collaboration.

6: Influences of student learning
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 6: Knowledge of a broad range of experiences, personal characteristics, and background variables that influence student learning and development, including reciprocal and diverse influences of home, school and community.

7: Educational factors
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 7: Knowledge and skills for identifying factors that enhance strengths, resilience, and protection from adversity, and that diminish educational and developmental risks.

8: Crisis management
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 8: Knowledge and skills to provide crisis prevention, planning, and interventions services, and the impact of trauma on development, learning, and school performance.

9: Positive behavior supports
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 9: Knowledge and skills to promote positive behavior supports for individuals and school wide programs.

10: Behavior intervention plans
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 10: Knowledge and skills in development of behavior intervention plans collaboratively with family members, educational staff, and outside resources, personal, and agencies.

11: Problem-solving
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 11: Knowledge and skills in mediation, conflict resolution, and collaborative problem-solving models.

12: Assessment
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 12: Knowledge and skills in comprehensive and systematic assessment and evaluation.

13: Service delivery
Providing Department: Temporary Approval for Michigan School Social Workers (Certificate
Start: 9/1/2014
End: 8/31/2015

<table>
<thead>
<tr>
<th>Learning Outcome Description</th>
<th>Outcome 13: Knowledge and skills in effective written communication of the assessment and evaluation results that include educationally relevant recommendations and, where appropriate, measurable goals, and anticipated outcomes from service delivery.</th>
</tr>
</thead>
</table>
| 14: Normative developmental expectations | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 14: Knowledge of normative expectations for infant, child, adolescent, and young adult emotional, behavioral, social, cultural, communicative, cognitive, learning, and physical development. |
| 15: Clinical and educational differences | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 15: Knowledge regarding similarities and differences between clinically-based definition of psychiatric disorders and educational disabilities. |
| 16: Evaluation | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 16: Knowledge and skills to evaluate effectiveness of programs and services and modify these based upon individual student need. |
| 17: Empirically-supported intervention methods | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 17: Knowledge and skills for locating, selecting, and applying empirically-supported, evidence-based prevention and intervention methods appropriate for use with individual s, groups, families, school personnel, and communities to enhance student learning, development, and school success. |
| 18: Facilitate student access | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 18: Knowledge and skills to facilitate and coordinate student access to medical, health, mental health, social services, and other community resources, and to promote collaboration among school personnel and other community agencies. |
| 19: Verbal communication | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 19: Ability to verbally communicate in terms understandable to students, parents, school staff, and agencies. |
| 20: Awareness | Providing Department: Temporary Approval for Michigan School Social Workers (Certificate  
Start: 9/1/2014  
End: 8/31/2015)  
Learning Outcome Description  
Outcome 20: Awareness of curriculum, teaching theories, and methodologies. |

Masters  
Dual Title in Social Work and Infant Mental Health (MSW)
1: Theory and research
Providing Department: Dual Title in Social Work and Infant Mental Health (MSW)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 1: Synthesize knowledge about theories and research relevant to infant mental health practice, including pregnancy and early parenting, infant development, relationship-based practice, attachment, and disorders of infancy and early childhood.

2: IMH service delivery model
Providing Department: Dual Title in Social Work and Infant Mental Health (MSW)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 2: Demonstrate expertise related to the IMH service delivery model and its use in clinical and classroom-based intervention and research.

3: Evidence-based practice
Providing Department: Dual Title in Social Work and Infant Mental Health (MSW)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 3: Provide evidence-based practice interventions to families and their infants who are experiencing complex risks.

4: Observation and assessment
Providing Department: Dual Title in Social Work and Infant Mental Health (MSW)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 4: Demonstrate expertise in observation and assessment of infants/young children, caregivers, and caregiver-infant/young child relationships to identify capacities, risks and relationship disturbances

5: Reflective practice
Providing Department: Dual Title in Social Work and Infant Mental Health (MSW)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Outcome 5: Engage in reflective practice consistent with the field of IMH.

Innovation in Community, Policy and Leadership (I-CPL)

1: Identify as a professional social worker
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Competency ICPL1: Identify as a professional social worker and conduct oneself accordingly.

2: Apply social work principles
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Competency ICPL2: Apply social work ethical principles to guide professional practice.

3: Critical thinking
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Competency ICPL3: Apply critical thinking to inform and communicate professional judgments.
4: Diversity in practice
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL4: Engage diversity and difference in practice.

5: Human rights and social & economic justice
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL5: Advance human rights and social and economic justice.

6: Research
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL6: Engage in research-informed practice and practice-informed research.

7: Human behavior and social environment
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL7: Apply knowledge of human behavior and the social environment.

8: Policy engagement
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL8: Engage in policy practice to advance social and economic well-being and to deliver effective social work services.

9: Respond to contexts
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL9: Respond to contexts that shape practice.

10: Engage, assess, intervene, and evaluate
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL10: Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

11: Analyze impact of urban context
Providing Department: Innovation in Community, Policy and Leadership (I-CPL)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency ICPL11: Analyze the impact of the urban context on a range of client systems, including practice implications.
1: Identify as a professional social worker
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP1: Identify as a professional social worker and conduct oneself accordingly.

2: Apply social work principles
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP2: Apply social work ethical principles to guide professional practice.

3: Critical thinking
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP3: Apply critical thinking to inform and communicate professional judgments.

4: Diversity in practice
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP4: Engage diversity and difference in practice.

5: Human rights and social & economic justice
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP5: Advance human rights and social and economic justice.

6: Research
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP6: Engage in research-informed practice and practice-informed research.

7: Human behavior and social environment
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP7: Apply knowledge of human behavior and the social environment.

8: Policy engagement
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP8: Engage in policy practice to advance social and economic well-being and to deliver effective social work services.

9: Respond to contexts
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP9: Respond to contexts that shape practice.
10: Engage, assess, intervene, and evaluate
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP10: Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.

11: Analyze impact of urban context
Providing Department: Interpersonal Concentration (IP)
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Competency IP11: Analyze the impact of the urban context on a range of client systems, including practice implications.

High Impact Experiences

Learning Communities

1.0: Learning Outcome 1.0
Providing Department: Learning Communities
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Communities will create a community of learners, where students have a strong sense of membership in a community, whose purpose they understand and value, and with whom they engage.

2: Learning Outcome 2
Providing Department: Learning Communities
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Communities will develop three specific learning outcomes, experiences designed to meet the learning outcomes, and an assessment plan to measure student success.

3: Learning Outcome 3
Providing Department: Learning Communities
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Communities will incorporate characteristics of High Impact Practices (HIPs), as outlined by the AAC&U, for improved student success. They will offer students opportunities to increase connection to the subject matter; provide students with both independence and support; and they will provide opportunities for students, faculty, and peer mentors to interact together.

Undergraduate Research

1: LO1: Presentation of Research
Providing Department: Undergraduate Research
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
After receiving a UROP award, students should be able to clearly present their research or creative project to an audience.

2: PO2: Retention
Providing Department: Undergraduate Research
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Undergraduate students who receive a UROP award should be retained at a higher level than those who do not receive a UROP award.
Student Services

Academic Pathways to Excellence Program

1: Academic Advising & Registration
Providing Department: Academic Pathways to Excellence Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
APEX students demonstrate knowledge and understanding of both APEX and University course requirements, course selection and online registration.

2: Instructional Support
Providing Department: Academic Pathways to Excellence Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The APEX Learning Communities (LC) assist first-year APEX students with structured academic support led by peer tutors. The structured engagement and support work to promote a seamless and academically enriched adjustment to college life. Students also enroll in two common first-year courses which help them develop sound study habits, refine classroom etiquette, accept responsibility for their actions, and improve decision making skills.

Students will demonstrate study skills and habits that facilitate college success
Students will demonstrate knowledge and understanding of University guidelines and policies
Students will demonstrate responsibility for one’s actions, feelings of University ownership and commitment to educational process
Students will gain exposure to STEM fields and their mathematics requirements

3: APEX Admissions
Providing Department: Academic Pathways to Excellence Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
APEX administrative staff will plan and implement the interview, selection, and orientation process for WSU applicants referred for consideration by the Office of Admissions.

4: Coursework Planning and Review
Providing Department: Academic Pathways to Excellence Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
APEX Advisors will schedule and facilitate bi-weekly meetings with their assigned APEX students for the purpose of jointly structuring and reviewing their course-related activity and behaviors.

Academic Success Center

1.1: ASC Outcome FYS - Self as Learner
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Through seminar discussions, activities and a common reading experience, FYS 1010 students will develop a greater awareness of themselves as learners.

1.2: ASC Outcome FYS - Skills and Habits
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Through seminar discussions, activities and a common reading experience, FYS 1010 students will know the habits necessary for success in college.

2.0: ASC Outcome - Supplemental Instruction
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Through Supplemental Instruction, students will learn to integrate course content with study skills in order to enhance understanding of material.
3.1: ASC Outcome Comerica Scholars Learning Community - Sense of Belonging
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Active Comerica Scholars (those who meet with Project Manager twice per semester, communicate weekly with Peer Mentor and attend class sessions for FYS 1010, PS 1010 and COM 1010) will develop sense of belonging within the WSU community.

3.2: ASC Outcome Comerica Scholars Learning Community - Positive Experiences
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Active Comerica Scholars will have positive academic experiences.

3.3: ASC Outcome Comerica Scholars Learning Community - Resources
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Active Comerica Scholars will understand and take advantage of campus resources.

3.4: ASC Outcome Comerica Scholars Learning Community - Portfolios
Providing Department: Academic Success Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Active Comerica Scholars will build portfolios reflecting development of personal, academic and professional growth.

Career Services

1: Cooperative Education - Student Learning Outcomes
Providing Department: Career Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Exposé students to the application and practice of concepts learned in their academic curriculum/major through a paid, supervised, and academically related work environment.

Counseling and Psychological Services

1: Motivation for Self-Improvement/Personal Responsibility
Providing Department: Counseling and Psychological Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Our clients will demonstrate motivation for self-improvement and personal responsibility.

2: Client-reported improvement
Providing Department: Counseling and Psychological Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Our clients' mental health will improve (e.g., they will exhibit stronger coping skills).

3: Better Academic Performance
Providing Department: Counseling and Psychological Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Our clients' academic performance will be enhanced.
Dean of Students

1: Learning Outcomes for Student Organizations Services Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Student Organizations Services Area’s learning outcomes will enable student organization leaders to:

- Recognize and identify student organization resources, policies, and funding opportunities;
- Employ organizational management practices that support positive organizational sustainability;
- Develop strategies to recruit, retain, and continually motivate contributing members to the organization;
- Develop collaborative relationships with student organizations and university departments; and
- Provide student involvement opportunities that supports the Dean of Students Office embrace of Astin’s Theory of Involvement that leads to academic success.

2: Learning Outcomes for Conduct and Care Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Conduct and Care Area’s learning outcomes are to:

- Develop online resources to support students, faculty, and staffs reporting of student conduct issues;
- Establish students awareness of appropriate behavior;
- Provide informational programs designed to educate students on acceptable behavior with self and others.

3: Learning Outcomes for Student and Campus Activities Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Student and Campus Activities Area’s learning outcomes are to enable students to:

- Identify a variety of social and cultural activities and events on campus;
- Feel connected to student activities whether they live on campus or commute from off campus residences;
- Discover the benefits of attending campus social and cultural events; and
- Describe the importance of learning and engaging with others different from themselves through these activities.

4: Learning Outcomes for Fraternity and Sorority Affairs Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Fraternity and Sorority Affairs Area’s learning outcomes will empower and educate students to:

- Learn and implement leadership and organizational management skills;
- Learn the importance of social responsibility;
- Illustrate the importance of collaboration within the academic fabric of the university through programs focused on academic success; and
- Implement social and activities programming that directly supports academic success and community involvement.

5: Learning Outcomes for Gay, Lesbian, Bisexual, Transgender, Queer/Questioning, and Allies (GLBTQA) Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Gay, Lesbian, Bisexual, Transgender, Queer/Questioning, and Allies Area’s learning outcomes will help campus community members:

- Recognize GLBTQA services available on-campus;
- Participate in campus activities focused on GLBTQA awareness; and
- Become trained as allies to GLBTQA students, faculty, and staff.

6: Learning Outcomes for Student Community Service Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The Student Community Service Area’s learning outcomes will help students:

- Identify opportunities to become involved in community service activities;
- Analyze and evaluate current community needs;
- Articulate an understanding of various ways to contribute to social change; and
- Describe knowledge and skills gained as a result of participation in community service activities.

7: Learning Outcomes for Legacy and Affinity Programs Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Legacy and Affinity Programs Area’s learning outcomes will embrace students in:

- Participating in student activities focused on school spirit and pride; and
- Joining student organizations whose mission is to promote a respect and allegiance for Wayne State’s history and harnesses the energy of “school spirited” student leaders.

8: Learning Outcomes for Parent and Family Programs Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Parent and Family Program Area’s learning outcomes will allow parents and family members to:

- Identify campus resources available to students and how to use them;
- Apply knowledge of campus resources by referring their students to them; and
- Be aware of student transitional issues.

9: Learning Outcomes for Marketing and Online Services Area
Providing Department: Dean of Students
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Marketing and Online Services Area’s learning outcomes will enable current students to:

- Identify the Dean of Students Office as the university department to contact to learn how to get involved on-campus;
- Identify the Dean of Students Office as the university department to contact for assistance in promoting events, programs, activities, and opportunities;
- Recognize opportunities for attendance at and involvement in student and campus activities;
- In support of Astin’s involvement theory, students will feel “connected” to Wayne State because they will immediately know how to get involved on-campus and in the community; and
- Engagement outside the classroom will motivate students to utilize university resources to reach personal and organizational goals.

Educational Outreach

1-1: Provide first-rate support services
Providing Department: Educational Outreach
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students served by the extension centers will receive student-centered, concierge-style advising and support systems. This will help them make knowledgeable decisions that support their educational accomplishments. Our goal is to provide first-rate support services and deliver exceptional customer service.

2-1: Offer State-of-the-Art Facilities
Providing Department: Educational Outreach
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students enrolled in a range of subjects can pursue their classes using state-of-the-art classrooms and learning facilities at six extension center sites. The numerous sites feature laboratories and advanced classroom settings. Programming is specifically selected to complement fast-growing industries that play key roles in the economy, and will help ensure that employers have a well-prepared, educated workforce.

3-1: Offer a Variety of Program Options
Providing Department: Educational Outreach
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Wayne State University serves the higher education needs of the state, its communities, and its diverse peoples through six extension center sites in the metro Detroit area. Over 30 convenient areas of study can lead to endorsements; undergraduate and graduate certificates; baccalaureate, and graduate degrees in a rich, diverse, and inclusive environment.

Housing and Residential Life

1. Resident Assistants inform residents of campus resources relevant to their needs.
   Providing Department: Housing and Residential Life
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Resident Advisors inform residents of campus resources that are relevant to their needs.

2. Resident Assistants build rapport with their residents.
   Providing Department: Housing and Residential Life
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Resident advisors build rapport with their residents.

Military and Veterans Academic Success

1415-1.1: Plan of Work Compliance
   Providing Department: Military and Veterans Academic Success
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Starting Fall 2014, it is our goal to be 100% in compliance and maintain this for all future semesters as new student veterans are in processed.

   Having a Plan of Work (POW) signed by an Academic Advisor (AA) is not only an excellent way to ensure academic success but it is also a requirement if you are using VA Educational benefits. Most have a POW on file but for those that do not, we have been using the STARS Degree Audit and AA experience to verify that registered classes are eligible for certification. This method had worked thus far but it is not efficient and, more importantly, errors could affect student success and we are out compliance with Federal regulations.

1415-2.1: Early VA Certification
   Providing Department: Military and Veterans Academic Success
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Our goal is to reduce the last minute certifications by 15% through increased awareness and by instilling a sense of urgency in our student veterans using multiple mediums to get the word out.

   Early registration and VA certification aids in avoiding future pay problems with the VA and is the first step in academic success for a student veteran. Currently 37% of our student veterans certify within 30 days prior to the start of the semester and another 18% of our student veterans certify after the semester has begun. Waiting until the last minute creates opportunities for mistakes by the VA School Certifying Official due to the volume of requests that have to be completed at the last minute and demonstrates a lack of training or planning by the student.

1415-3.1: Student Veteran Resource Center Usage
   Providing Department: Military and Veterans Academic Success
   Start: 9/1/2014
   End: 8/31/2015
   Learning Outcome Description
   Our goal is to increase the monthly usage by at least 10% for SY2014-2015.

   Our Student Veteran Resource Center (SVRC) has grown from ~240 monthly users when we first opened the doors in SY 2011 to ~560 monthly users in SY13-14. The SVRC is the central point on campus where veterans/military can go to find out about the comprehensive support service that our department offers. In order to better serve our cohorts needs in the future, we must first get them to use the existing resources.
Office of Financial Aid

1: Compliance - Title IV
Providing Department: Office of Financial Aid
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Demonstrate adherence to federal Title IV aid rules and regulations.

2: Compliance - Cash Management
Providing Department: Office of Financial Aid
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Adhere to cash management standards as defined through the Federal Aid Blue Book in concert with GAAPS.

Ombudsperson

1: Identifying Common Issues
Providing Department: Ombudsperson
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Ombuds Office issues identifies common issues of concern.

Registrar

1: Improve Degree Reporting Times
Providing Department: Registrar
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Degrees are certified by departments and schools/colleges, and then reported to the Registrar. The Registrar, in turn, reports degrees to National Student Loan Clearinghouse. Federal law requires this be done within 30 days of the end of term in which student is completing. This is a completion date we need to meet. In addition, there are numerous university processes which wait for timely degree posting such as graduation rate calculations, and alumni development activities.

Assessment will be completed by measuring the percent of degree applications completed thirty days following the end of the fall, winter, and spring-summer terms and also by the number of days required to reach 100%. Assessment will continue until each term reaches 100% completion within 30 days. These measurements exclude the Law School, which operates on a different timetable.

2: Reduce Course Withdrawal Rates
Providing Department: Registrar
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Course withdrawal rates have been historically high at WSU. This negatively impacts student success. Launch the “Smart Check” process for 2013-2014, to provide active intervention when students request course withdrawal. Intervention will include advising students of impact of course withdrawal on academic progress, time to degree, financial aid eligibility and student loan repayment status.

Progress will be measure by change in the overall volume of course withdrawals from 2012-2013 to 2013-2014.

3: Reduce Contacts in the Student Services Center
Providing Department: Registrar
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students visit the Student Services Center to request information and services for the Registrar's Office. Through improvements in business processes and proactive communications, reduce the number of students who contact the SSC for our information and services.

Assessment will be done by measuring the change in phone, e-mail, and walk-in traffic provided by the SSC for Records/Registration Services, based on SSC monthly reports.
Student Disability Services

1: SDS LEARNING OUTCOME 1 Registration
Providing Department: Student Disability Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Students with disabilities will choose to register with SDS.

2: SDS LEARNING OUTCOME 2 TESTING
Providing Department: Student Disability Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students with disabilities approved for testing accommodations will make requests for testing accommodations.

3: SDS LEARNING OUTCOME 3 CONTINUATION OF SERVICES
Providing Department: Student Disability Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Registered SDS students will return for accommodation letters each semester.

Student Services Center

1.0: Provide Excellent Customer Service
Providing Department: Student Services Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Student Service Center will provide excellent customer service to make students feel welcome and appreciated by the University.

2.0: Provide First Contact Resolution
Providing Department: Student Services Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Student Service Center will provide accurate and timely information to students to help them make well-informed decisions that support their educational success.
We will answer questions and resolve issues at the first point of contact with a student, parent, or community member.

Testing, Evaluation and Research Services

1: SET Goal
Providing Department: Testing, Evaluation and Research Services
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students will increase their participation in SET.
1: Testing Goal
Providing Department: Testing, Evaluation and Research Services
Start: 9/1/2013
End: 8/31/2015
Learning Outcome Description
Students will describe their experience testing in our center as professional, fair and respectful.

2: SET Goal
Providing Department: Testing, Evaluation and Research Services
Start: 1/1/2015
End: 8/31/2015
Learning Outcome Description
Faculty will find their new COGONOS reports
- high quality
- simple to understand
- helpful

2: Testing Goal
Providing Department: Testing, Evaluation and Research Services
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Students will describe their experience registering for tests as convenient, respectful, and professional.

TRIO/Access Program

1: McNair scholars have enhanced research skills.
Providing Department: TRIO/Access Program
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
In order to ensure that McNair Scholars are prepared for graduate school it is important that a faculty-mentored research experience takes place. Additionally, these experiences should increase the scholars' perceived research skills.

2: McNair Scholars will have increase persistence in their proposed science major.
Providing Department: TRIO/Access Program
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Participants in the program should continue matriculation in their respective major. The program should support completion of the degree, especially those pursuing STEM degrees. Students should have increased confidence in ability to complete the Bachelors' degree.

3: McNair Scholars will enroll in post baccalaureate programs immediately following degree completion.
Providing Department: TRIO/Access Program
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
Per McNair Scholars program requirements from the Department of Education it is important that majority of the student enter graduate school immediately following completion of the undergraduate degree.

4: Increased attainment of PhDs among underrepresented populations.
Providing Department: TRIO/Access Program
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
The program supports underserved populations at the university, namely first generation, low-income or minority students. These populations are least likely to pursue a doctoral degree, so the program provides academic services to these students to make graduate education to the PhD level can be more readily completed.

5: Scholars have high levels of self-confidece and motivation to pursue post baccalaureate degree.
Providing Department: TRIO/Access Program
Start: 9/1/2014
End: 8/31/2015
Learning Outcome Description
6: McNair scholars feel a sense of community and build professional networks among themselves.
Providing Department: TRIO/Access Program
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description

Undergraduate Admissions and Orientation

1: Strategically Recruit Students
Providing Department: Undergraduate Admissions and Orientation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Program Goal
Enhance the Office of Undergraduate Admissions strategic recruitment efforts by leveraging technology to utilize data sources to pull admissions reports.

2: New Student Yield Events and Activities
Providing Department: Undergraduate Admissions and Orientation
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
The Office of Undergraduate Admissions collaborates with the Schools/Colleges and Student Services Departments to implement several events and activities to increase new student enrollment.

University Advising Center

1-1: FTIAC: Valuing Foundation Courses
Providing Department: University Advising Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Learning Outcome: Valuing foundation courses
Fall 2014 FTIAC’s served by the UAC will demonstrate competency in foundational/core competencies, by successfully completing Basic Composition and Math Competency by 30 credits

2-1: Pre-professional
Providing Department: University Advising Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students served by the UAC pursuing professional degrees will demonstrate understanding of required classes to complete prior to application to professional program.

3-1: Exploratory
Providing Department: University Advising Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Exploratory students will declare a major/identify a professional program by 45 credit hours.

4-1: Academic Standing
Providing Department: University Advising Center
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
Students in academic jeopardy will achieve good academic standing as a result of interventions.
-Finish contract term with “C” or better grades
**LO1: Identify the assessment cycle**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs identify the program assessment cycle's stages, purposes, and benefits.

**LO2: Compose mission statements**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs compose mission statements that reflect best practices.

**LO3: Compose learning outcomes**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs compose learning outcomes that reflect best practices.

**LO4: Select sustainable assessments**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs select sustainable assessments that provide useful data for understanding whether their stakeholders are achieving their program's learning outcomes.

**LO5: Use data for decision-making**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs use their assessment data to make logical decisions about what to retain or change in their program.

**LO6: Carry out action plan**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs carry out their data-driven decisions to improve their program.

**LO7: Close the loop**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty and staff from academic and co-curricular programs close the loop by re-assessing whether their improvements efforts had the desired effect.

**PG10: Believe efforts are valued**
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty, staff, and administrators from academic and co-curricular programs believe that program assessment efforts are valued.
PG8: Meet documentation requirements
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty, staff, and administrators from academic and co-curricular programs meet annual assessment plan documentation requirements.

PG9: Expand participation
Providing Department: WSU Assessment
Start: 9/1/2014
End: 8/31/2015

Learning Outcome Description
WSU faculty, staff, and administrators from academic and co-curricular programs expand the number of individuals engaging in program assessment.