

UW Flexible Option Competency Set Listing

Updated May 2017



UW FLEXIBLE OPTION COMPETENCY SET LISTING – 2016

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This is a list of the competency sets offered through the UW Flexible Option. Be sure to connect with your Academic Success Coach before making any competency set selections for your subscription period. Competency set descriptions are listed in curricular area and, where appropriate, are cross-listed. Information listed in this document is subject to change. This listing does not include the Bachelor of Science in Business Administration (BSBA) degree. For information related to the BSBA, click [here](#).

Abbreviations

A – Arts	HU – Humanities
AP – Application/Performance	IS – Interdisciplinary Studies
CD – Cultural Diversity	LS – Lab Science
EL – Electives	MS – Math
ENG – English	NS – Natural Science
ES – Ethnic Studies	SS – Social Sciences
FA – Fine Arts	

CREDIT PROGRAMS

UW COLLEGES

ASSOCIATE OF ARTS AND SCIENCE – AAS

General education requirements (GERs) are intended to give structure to each student's education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

Your academic success coach will assist in creating your Individualized Learning Plan, which will incorporate competency sets required for your program, including those that meet GERs. All transferable prior college coursework will be considered in meeting program requirements. Students with an [Associate of Arts and Science degree from the UW Colleges](#) are considered as having met UW-Milwaukee GERs.

Oral and Written Communication Competency

Part A: Completion can be demonstrated by satisfying one of the following options:

1. Earning at least three credits with a grade of C or higher in English 102,* or transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course,* or
2. Achieving an appropriate score on the UW System English Placement Test (EPT).

Part B: Satisfied by completing an approved advanced Competency Set or previously completed course (at least three credits) with a significant written or oral communication component.

Competency sets that count toward this requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

Quantitative Literacy Competency

Part A. Completion can be demonstrated by satisfying one of the following options:

Earning at least three credits with a grade of C or higher in UW Colleges Math 110 or equivalent competency set or courses,* or

Achieving a placement code of at least 30 on the UW System mathematics placement test.

Part B. Satisfied by completing at least one approved competency set or previously completed course (at least three credits) as determined by the academic major. These make significant use of quantitative tools in the context of other course material.

Other Exceptions to General Education Requirements

Students who entered UW-Milwaukee as freshmen and/or earned transferable credit prior to September 2013 are not responsible for the Oral and Written Communication Part B or the Quantitative Literacy Part B.

In general, second-degree candidates from an accredited institution and students whose first semester in a degree program at an accredited institution predates September 1986 are not subject to the general education requirements.

All degree programs have specific requirements beyond GER. Your Academic Success Coach will work with you to design an appropriate course of study.

Distribution Requirements

You can satisfy the distribution requirements by successfully completing competency sets or courses in the following areas:

- **Fine Arts and Humanities: Minimum of 9 credits including:**
 - 1 fine arts course
 - 1 humanities course
- **Mathematical and Natural Sciences:** Total of 11 credits including:
 - **8 credits in 2 natural science areas**
 - **1 laboratory science course**
- **Social Sciences:** Total of nine credits in at least two competency sets or courses
- **Cultural Diversity:** Minimum of 3 credits Courses may also be counted toward another breadth category.
- **Interdisciplinary Studies:** Minimum of 3 credits - Courses may also be counted toward another breadth category.

AREAS OF STUDY

CORE REQUIREMENTS (English and Math Competency Sets)

ENG 102x – Critical Reading, Writing, & Research (3 cr.)

Students will either complete a placement exam or transfer in an appropriate prerequisite to qualify as ready to attempt mastery of competencies for this core course. A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading. Prereq: A grade of C or better in ENG 101 Composition I or exemption through a sufficiently high placement assessment. *ENG*

MAT 110x – College Algebra (3 cr.)

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule. *MS*

FINE ARTS AND HUMANITIES (minimum of 9 credits)

GSW 102x – Women's Voices (3 cr.)

An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives. *HU/IS*

MUS 173x – Music & Literature Appreciation (3 cr.)

A guide to the understanding of music through listening experiences in the various styles and historical periods. *FA*

SPA 101x – First Semester Spanish (4 cr.)

For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in Spanish. The competency set also may include cultural studies of Spain and Latin America. *HU*

MATHEMATICAL AND NATURAL SCIENCE (minimum of 11 credits)

BIO 141x – Heredity (3 cr.)

Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences. Lecture and may also include demonstrations, discussion and field trips. Lecture and may also include demonstrations, discussion and field trips. *NS*

CHE 124x Lab – Applied Chemistry & Society (4 cr.)

A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and laboratories and may also include discussions and demonstrations. *NS/LS*

CHE 250x – Review & Updates in Chemistry & Biochemistry (3 cr.)

The primary goal for the Review and Updates in Chemistry and Biochemistry competency set is to help students understand how chemistry is a foundation in the education of health care professionals. The competency set begins with the basics of chemistry and then illustrates how that chemistry is at work in our bodies. Students will learn how proteins, carbohydrates, lipids, and nucleic acids are built from atoms. Even though these molecules contain the same types of atoms, their structures and properties are very different. A large part of the story is to explain how these different structures play different roles in biochemical processes. *NS*

GEO 125x Lab – Physical Geography (5 cr.)

The geography of Earth's physical characteristics, including weather and climate, climate types, water, soils, Earth materials, landforms, and Earth resources; study of the processes and interactions creating Earth's physical geographic patterns. *NS/LS*

HES 209x – Nutrition & Weight Control (3 cr.)

This competency set will examine the basic principles of nutrition, digestion, and metabolism and the effects of these principles on one's diet, weight, fitness level, and overall health. The functions, requirements, and applications of nutrients and nutritional needs throughout the life cycle will be studied. The competency set will also include the basic knowledge and application of nutrient recommendations, dietary guidelines, and interrelationships of foods. It will also examine the issues of alternative nutrition, food safety, and eating disorders. The competency set will include personal diet assessment and development of personal health goals. *NS*

MAT 117x – Elementary Statistics (3 cr.)

The primary aim of the competency set is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. Includes measures of central tendency, measures of variability, grouped data, the normal distribution, central limit theorem, hypothesis testing, estimation, T-distribution and chi square test. *MS*

PHY 110x – Physics for Health Sciences (3 cr.)

A descriptive introduction to those basic concepts of physics which have application to human health in general and to the medical and paramedical professions in particular. Primary attention will be paid to the physics of various functions of the human body (e.g., muscular and skeletal motions, the several senses and neural processes) and to the physics of commonly used instruments and equipment. *NS*

SOCIAL SCIENCES (minimum of 9 credits)

ANT 100x – General Anthropology (3 cr.)

A survey of the subfields of anthropology, especially archaeology and physical and cultural anthropology. The course explores human biological evolution and variation, cultural evolution, language, and culture change. *SS*

POL 104x – American Government and Politics (3 cr.)

Analysis of the decision-making structure and processes of American national government, including the role of parties and interest groups, and the value preferences within American society which affect the formation of public policy. *SS*

PSY 202x – Introductory Psychology (3 cr.)

Survey of major content areas in Psychology. Topics include research methodology, learning, memory, cognition, biological psychology, sensation, perception, motivation, emotion, development, personality, psychopathology, and social psychology. *SS*

SOC 101x – Introduction to Sociology (3 cr.)

Introduction to the basic concepts, theories and methods of Sociology, emphasizing the significance of the self and culture, social process and organization, and forces of social stability and change. *SS*

APPLICATION AND PERFORMANCE (minimum of 3 credits)

ART 161x – Introduction to Photography (3 cr.)

Black and white still photography: the camera, the negative, the print. *AP*

BUS 201x – Introductory Accounting (4 cr.)

Fundamental principles, terminology, techniques, and applications; books, accounts and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts. *AP*

CPS 139x – Web Page Development (2 cr.)

Development of web pages using HTML and Cascading Style Sheets. Introduction to XML documents and XHTML standards. This course involves extensive hands-on experience. *AP*

CTA 103x – Introduction to Public Speaking (3 cr.)

Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences. *AP*

EGR 110x – Engineering Graphics (3 cr.)

An introductory course in engineering graphics focusing on graphical communication. Topics include descriptive geometry elements, visualization, engineering drawing techniques, orthographic projection,

pictorial representation, auxiliary views, section views, and basic dimensioning. The course incorporates computer aided drafting (CAD) with engineering applications using 2-D drawing and 3-D modeling techniques. *AP*

ETHNIC STUDIES (minimum of 3 credits)

HIS 102x – History of the United States from the Era of the Civil War to the Present (3 cr.)

A survey of American political, economic, social, and intellectual history from the era of the Civil War to the Present. As an Ethnic Studies (ES) course, this course thoroughly integrates the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans into US history in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society. *ES/SS*

MUS 273x – Jazz History & Appreciation (3 cr.)

An introduction to the styles and forms of jazz through a study of its history, literature, cultural influences, musical structure, and prominent performers. *ES/FA*

INTERDISCIPLINARY STUDIES (minimum of 3 credits)

GSW 101x – Introduction to Women's Studies (3 cr.)

An introduction to the major issues addressed by women's studies with an emphasis on interdisciplinary social science theories and methodologies involved in gaining accurate knowledge about women's lives and contributions to society, both within the United States and around the world. Perspectives, texts, and methodologies from across the social science disciplines ranging from history, economics, sociology, political science, public health, criminal justice, psychology, and others will be used to understand the experience of women and the cultural construction of gender. *IS/SS*

REL 101x – Introduction to the Study of Religion (3 cr.)

This course introduces students to various methods employed in the academic study of religion and will provide opportunity for students to apply these methods to diverse expressions of the religious life. *IS/HU*

ELECTIVES

BUS 101x – Introduction to Business (3 cr.)

Introduction to the role of business in the modern political, social and economic environments; describes career opportunities. *EL*

ENG 101x – College Writing & Critical Reading (3 cr.)

A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings. Prereq: A grade of C or better in a basic writing course (ENG 097, ENG 098, or LEA 106 when taken as a three-credit course) or exemption through a sufficiently high placement assessment. *ENG*

MAT 105x – Intermediate Algebra (4 cr.)

Emphasizes algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry. *MS*

UW-MILWAUKEE

INFORMATION STUDIES – IST

General education requirements (GERs) are intended to give structure to each student's education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

Your academic success coach will assist in creating your Individualized Learning Plan, which will incorporate competency sets required for your program, including those that meet GERs. All transferable prior college coursework will be considered in meeting program requirements. Students with an [Associate of Arts and Science degree from the UW Colleges](#) are considered as having met UW-Milwaukee GERs.

Oral and Written Communication Competency

Part A: Completion can be demonstrated by satisfying one of the following options:

1. Earning at least three credits with a grade of C or higher in English 102,* or transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course,* or
2. Achieving an appropriate score on the UW System English Placement Test (EPT).

Part B: Satisfied by completing an approved advanced Competency Set or previously completed course (at least three credits) with a significant written or oral communication component.

Competency sets that count toward this requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

Note that students with transferrable credit prior to Fall 2013 may be exempt from the Part B requirement.

Quantitative Literacy Competency

Part A. Completion can be demonstrated by satisfying one of the following options:

Earning at least three credits with a grade of C or higher in UW Flex Math 110x (UWM Math 105), or transferring at least three credits with a grade of C or higher in a course equivalent to UWM Math 103 (formerly 106), 105, 175 or equivalent competency set or courses,* or

Achieving a placement code of at least 30 on the UW System mathematics placement test.

Part B. Satisfied by completing at least one approved competency set or previously completed course (at least three credits) as determined by the academic major. These make significant use of quantitative tools in the context of other course material.

Note that students with transferrable credit prior to Fall 2013 may be exempt from the Part B requirement.

Foreign Language Requirement:

Completion of the foreign language requirement can be demonstrated by satisfying one of the following options:

- Prior to enrollment at UWM, complete, with passing grades, at least two consecutive years of high school-level instruction in a single foreign language, **or**
- Complete at least two consecutive competency sets (or previously completed semesters (minimum total of six credits) of college level instruction in a single foreign language, **or**

- Demonstrate foreign language ability equivalent to two competency sets of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

NOTE: Students who entered UW-Milwaukee as freshmen and/or earned transferable credit prior to September, 1999 are not responsible for this foreign language competency requirement. However, individual schools and colleges may require completion of higher level foreign language competency. Your Academic Success Coach will inform you of any such requirements.

Other Exceptions to General Education Requirements

Students who entered UW-Milwaukee as freshmen and/or earned transferable credit prior to September 2013 are not responsible for the Oral and Written Communication Part B or the Quantitative Literacy Part B.

In general, students may be exempt from general education requirements if:

- They are second-degree candidates, having received a previous degree from an accredited institution.
- Their first semester in a degree program at an accredited institution predates September 1986.

All degree programs have specific requirements beyond GER. Your Academic Success Coach will work with you to design an appropriate course of study.

Distribution Requirements

You can satisfy the distribution requirements by successfully completing competency sets or courses in the following areas:

- **Arts:** Three credits about the history, philosophy, theory, or practice of the creative and interpretive arts (e.g., visual arts, dance, music, theatre, creative writing).
- **Humanities:** Total of six credits in at least two competency sets or courses
- **Natural Sciences:** Total of six credits in at least two competency sets or courses. At least one competency set or course must include laboratory or field experience involving the generation and testing of data, and the application of concepts and knowledge to the solution of problems.
- **Social Sciences:** Total of six credits in at least two competency sets or courses
- **Cultural Diversity:** Three credits in a competency set or course relating to the study of life experiences of African Americans, Hispanic/Latino Americans, American Indians or Asian Americans. Many, but not all, courses which satisfy Cultural Diversity also satisfy one of the required distribution areas. (You will need to satisfy this requirement if you started attending UW-Milwaukee in fall 1989 or thereafter.)

Cultures and Communities

Students may choose the Cultures and Communities option to satisfy their GER distribution requirements. These competency sets or courses emphasize diversity and cross-cultural literacy, multicultural arts, global studies, and the cultural contexts of science, health care, and technology. A Service Learning competency set or course is also required.

Courses which have been approved as satisfying the GER distribution requirements are listed on the Courses Approved for GER Distribution pages. A course can be counted in only one of the main distribution areas (Arts, Humanities, Natural Sciences or Social Sciences), but may also satisfy the Cultural Diversity requirement if it is on the approved list.

Area I – Competency Requirements

ANT 100x – General Anthropology (3 cr.)

A survey of the subfields of anthropology, especially archaeology and physical and cultural anthropology. The course explores human biological evolution and variation, cultural evolution, language, and culture change. *SS*

BIO 141x – Heredity (3 cr.)

Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences. Lecture and may also include demonstrations, discussion and field trips. Lecture and may also include demonstrations, discussion and field trips. *NS*

BMS 205x – Introduction to Diagnostic Medicine (3 cr.)

Demonstrate knowledge and application of the mechanisms, procedures, physiological basis, decision-making, and evidence based protocols used to diagnose health and disease. *NS*

BMS 245x – Client Diversity in Health Sciences: An Interdisciplinary Approach (3 cr.)

Exploration of cultural self-awareness, rules, behaviors and biases of diverse societies, and interprofessional application of effective service delivery in the health professions to culturally diverse individuals and families. *SS/CD*

BMS 260x – Introduction to Complimentary & Alternative Medicine (3 cr.)

Educational foundation regarding the broad use of complementary and alternative practices available to consumers and health professionals and evidence based assessment of predominant complementary and alternative health care traditions and therapies. *SS, DI/IST*

CHE 124x Lab – Applied Chemistry & Society (4 cr.)

A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and laboratories and may also include discussions and demonstrations. *LS/NS*

CHE 250x – Review & Updates in Chemistry & Biochemistry (3 cr.)

The primary goal for the Review and Updates in Chemistry and Biochemistry competency set is to help students understand how chemistry is a foundation in the education of health care professionals. The competency set begins with the basics of chemistry and then illustrates how that chemistry is at work in our bodies. Students will learn how proteins, carbohydrates, lipids, and nucleic acids are built from atoms. Even though these molecules contain the same types of atoms, their structures and properties are very different. A large part of the story is to explain how these different structures play different roles in biochemical processes. *NS*

CTA 103x – Introduction to Public Speaking (3 cr.)

Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences. *HU*

ENG 101x – College Writing & Critical Reading (3 cr.)

A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings. Prereq: A grade of C or better in a basic writing course (ENG 097, ENG 098, or LEA 106 when taken as a three-credit course) or exemption through a sufficiently high placement assessment. *ENG*

ENG 102x – Critical Reading, Writing, & Research (3 cr.)

Students will either complete a placement exam or transfer in an appropriate prerequisite to qualify as ready to attempt mastery of competencies for this core course. A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading. Prereq: A grade of C or better in ENG 101 Composition I or exemption through a sufficiently high placement assessment. *ENG/OWC Part A*

ENG 206x – Introduction to Business and Technical Communications (3 cr.)

Students will learn to assess communication situations using core rhetorical principles of audience, purpose, and context, and, after study and practice, will demonstrate their competency in producing key verbal and written genres such as email, memos, letters, presentations, and reports. *ENG/OWC Part B*

GEO 125x Lab – Physical Geography (5 cr.)

The geography of Earth's physical characteristics, including weather and climate, climate types, water, soils, Earth materials, landforms, and Earth resources; study of the processes and interactions creating Earth's physical geographic patterns. *NS/LS*

GSW 101x – Introduction to Women's Studies (3 cr.)

An introduction to the major issues addressed by women's studies with an emphasis on interdisciplinary social science theories and methodologies involved in gaining accurate knowledge about women's lives and contributions to society, both within the United States and around the world. Perspectives, texts, and methodologies from across the social science disciplines ranging from history, economics, sociology, political science, public health, criminal justice, psychology, and others will be used to understand the experience of women and the cultural construction of gender. *IS/SS*

GSW 102x – Women's Voices (3 cr.)

An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives. *HU/IS*

HES 209x – Nutrition & Weight Control (3 cr.)

This competency set will examine the basic principles of nutrition, digestion, and metabolism and the effects of these principles on one's diet, weight, fitness level, and overall health. The functions, requirements, and applications of nutrients and nutritional needs throughout the life cycle will be studied. The competency set will also include the basic knowledge and application of nutrient recommendations, dietary guidelines, and interrelationships of foods. It will also examine the issues of

alternative nutrition, food safety, and eating disorders. The competency set will include personal diet assessment and development of personal health goals. *NS*

HIS 102x – History of the United States from the Era of the Civil War to the Present (3 cr.)

A survey of American political, economic, social, and intellectual history from the era of the Civil War to the Present. As an Ethnic Studies course, this course thoroughly integrates the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans into US history in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society. *SS/CD*

HS 105x – Survey of the Health Professions (3 cr.)

Comparison of interdisciplinary health care roles and scope of practice. Critical analysis of the health care professions with respect to the health care industry, personal values, knowledge skills, attitudes, and educational requirements. *SS*

INFOST 120x – Ethical Issues in Information Technology (3 cr.)

This competency set provides a comprehensive overview of the ethical issues in contemporary information and communication technologies. Building from a basic understanding of ethical theory, it examines an array issues, including privacy, intellectual property, information security, free speech, cyberbullying, and digital sex and violence. The ethical choices and responsibilities of users and information professionals will be considered. *HU*

MAT 110x – College Algebra (3 cr.)

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule. *MT/QL Part A*

MAT 117x – Elementary Statistics (3 cr.)

The primary aim of the competency set is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. Includes measures of central tendency, measures of variability, grouped data, the normal distribution, central limit theorem, hypothesis testing, estimation, T-distribution and chi square test. *MT/QL Part B/NS*

MUS 173x – Music & Literature Appreciation (3 cr.)

A guide to the understanding of music through listening experiences in the various styles and historical periods. *A*

MUS 273x – Jazz History & Appreciation (3 cr.)

An introduction to the styles and forms of jazz through a study of its history, literature, cultural influences, musical structure, and prominent performers. *A/CD*

PHY 110x – Physics for Health Sciences (3 cr.)

A descriptive introduction to those basic concepts of physics which have application to human health in general and to the medical and paramedical professions in particular. Primary attention will be paid to

the physics of various functions of the human body (e.g., muscular and skeletal motions, the several senses and neural processes) and to the physics of commonly used instruments and equipment. *NS*

PSY 202x – Introductory Psychology (3 cr.)

Survey of major content areas in Psychology. Topics include research methodology, learning, memory, cognition, biological psychology, sensation, perception, motivation, emotion, development, personality, psychopathology, and social psychology. *SS*

REL 101x – Introduction to the Study of Religion (3 cr.)

This course introduces students to various methods employed in the academic study of religion and will provide opportunity for students to apply these methods to diverse expressions of the religious life. *IS*

SOC 101x – Introduction to Sociology (3 cr.)

Introduction to the basic concepts, theories and methods of Sociology, emphasizing the significance of the self and culture, social process and organization, and forces of social stability and change. *SS*

SPA 101x – First Semester Spanish (4 cr.)

For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in Spanish. The competency set also may include cultural studies of Spain and Latin America. *FL** **Note: Two semesters of a foreign language are required to meet the Foreign Language at UW-Milwaukee*

Area II – INFOST Core Competency Sets

INFOST 110x – Essentials of Information Science & Technology (3 cr.)

Introduces essential issues in the discipline of information science and technology, including the nature of information, the history of information technology, an overview of information institutions and professions, and various critical perspectives of information and information technology.

INFOST 210x – Information Resources for Research (3 cr.)

Introduction to research processes necessary for effective, college-level library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.

INFOST 230x – Organization of Knowledge (3 cr.)

An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.

INFOST 240x – Introduction to Web Design (3 cr.)

This competency set introduces the basics of web design including using HTML, CSS and JavaScript for web development.

INFOST 310x – Human Factors in Information Seeking & Use (3 cr.)

Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services.

INFOST 340x – Systems Analysis & Design (3 cr.)

This competency set introduces the theories, principles, and tools for planning, organizing, assessing, and evaluating information, emphasizing the importance of user's perspective. This cluster also covers the various stages of systems analysis and outlines the appropriate methods for each stage.

INFOST 410x – Database Information Retrieval Systems (3 cr.)

Introduces the design and development of different types of electronic information systems, including database types, design issues, application development, and software selection and evaluation

INFOST 440x – Web Application Development (3 cr.)

Interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.

INFOST 490x – Senior Capstone (3 cr.)

Analysis, creation, development and presentation of an information retrieval system project for an information organization. *Prerequisite: INFOST 340*

Area III – Upper-Division Electives

ENG 428x – Strategic Writing for Organizations (3 cr.)

Students will learn how to analyze and create written responses to a wide variety of organizational issues, exigencies and crises, learning how to analyze a wide variety of communication situations and develop appropriate response plans. *ENG*

ENG 429x – Technical Communications & Organizational Leadership (3 cr.)

Students will focus on the technical writing and communication used in problem solving and in relation to both specific projects and general activities of the organization, including online and face-to-face presentations and discussions/group work, and conflict as it arises. *ENG*

ENG 435x – Advanced Business & Technical Communications (3 cr.)

Students will complicate what they learned in the introductory course, learning about the practice of business and technical communications in contemporary workplaces. They will study contemporary document processes and research, present, and write rhetorically complex business cases. *ENG*

ENG 437x – Project Management (3 cr.)

Students will master concepts and terminology of contemporary methods and gain significant competency with the written genres of project management. In doing so, they will demonstrate their ability to plan, control, and implement sophisticated projects. *ENG*

ENG 439x – Document Design (3 cr.)

Students will develop mastery of core design principles critical to business and technical communications, learning to critique information designs; develop effective graphics, tables, and other visuals; and design useful interfaces and information architectures. *ENG*

INFOST 320x – Web Design II (3 cr.)

Examination and utilization of advanced technologies and practices being employed in web usability and design. *Prereq: INFOST 240.*

INFOST 330x – Electronic Information Retrieval Systems (3 cr.)

Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information.

INFOST 370x – Data Analysis & Visualization for the Information Professional (3 cr.)

Introduction to data analysis and visualization using simple statistical analyses to create graphical depictions of data that can improve comprehension, communication, and decision making.

INFOST 375x – Multimedia Web Design (3 cr.)

Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web.

Area IV – Cross-Functional Electives

ART 161x – Introduction to Photography (3 cr.)

Black and white still photography: the camera, the negative, the print. *Tech Arts*

BUS 101x – Introduction to Business (3 cr.)

Introduction to the role of business in the modern political, social and economic environments; describes career opportunities. *Business*

BUS 201x – Introductory Accounting (4 cr.)

Fundamental principles, terminology, techniques, and applications; books, accounts and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts. *Business*

CPS 139x – Web Page Development (2 cr.)

Development of web pages using HTML and Cascading Style Sheets. Introduction to XML documents and XHTML standards. This course involves extensive hands-on experience. *Tech Arts*

CTA 103x – Introduction to Public Speaking (3 cr.)

Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences. *Comm*

ENG 206x – Introduction to Business and Technical Communications (3 cr.)

Students will learn to assess communication situations using core rhetorical principles of audience, purpose, and context, and, after study and practice, will demonstrate their competency in producing key verbal and written genres such as email, memos, letters, presentations, and reports. *Comm*

EGR 110x – Engineering Graphics (3 cr.)

An introductory course in engineering graphics focusing on graphical communication. Topics include descriptive geometry elements, visualization, engineering drawing techniques, orthographic projection, pictorial representation, auxiliary views, section views, and basic dimensioning. The course incorporates computer aided drafting (CAD) with engineering applications using 2-D drawing and 3-D modeling techniques. *Tech Arts*

HS 311x – Law or Healthcare Professionals & Consumers (3 cr.)

An introduction to law and ethics as they relate to health care. Topics include ethical decisions, contracts, liability, malpractice, informed consent, HIPAA, litigation, healthcare technology, and trial proceedings. *DI*

INFOST 120x – Ethical Issues in Information Technology (3 cr.)

This competency set provides a comprehensive overview of the ethical issues in contemporary information and communication technologies. Building from a basic understanding of ethical theory, it examines an array issues, including privacy, intellectual property, information security, free speech, cyberbullying, and digital sex and violence. The ethical choices and responsibilities of users and information professionals will be considered. *Phil/Psych, Info Studies*

INFOST 330x – Electronic Information Retrieval Systems (3 cr.)

Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. *Info Studies*

INFOST 375x – Multimedia Web Design (3 cr.)

Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web. *Tech Arts*

KIN 400x – Ethics & Values in Health & Fitness Professions (3 cr.)

Exploration of morality and ethics and their importance in the allied health professions. *DI*

PSY 202x – Introductory Psychology (3 cr.)

Survey of major content areas in Psychology. Topics include research methodology, learning, memory, cognition, biological psychology, sensation, perception, motivation, emotion, development, personality, psychopathology, and social psychology. *Phil/Psych*

Area V – General Electives

***All competency sets listed in Areas I, III, and IV can fulfill credits in Area V, if needed (note that credits can be applied in these respective areas OR in Area V). In addition, the following Biomedical Sciences (BMS) courses will fulfill credits in Area V:**

HCA 220x – Leading Healthcare Professionals (3 cr.)

Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.

HS 102x – Healthcare Delivery in the United States (3 cr.)

An introduction to health care delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.

BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCES: DIAGNOSTIC IMAGING– DI

This degree completion program requires a minimum of 120 credits for completion. Upon admission to UWM and confirmation of your active registry, you will be awarded 60 credits toward completion of your degree. The remaining 60 credits include General Education Requirements necessary for a UWM bachelor's degree, any elective requirements, and the unique competency sets that define this program:

General Education Requirements

ANT 100x – General Anthropology (3 cr.)

A survey of the subfields of anthropology, especially archaeology and physical and cultural anthropology. The course explores human biological evolution and variation, cultural evolution, language, and culture change. *SS*

BIO 141x – Heredity (3 cr.)

Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences. Lecture and may also include demonstrations, discussion and field trips. Lecture and may also include demonstrations, discussion and field trips. *NS*

BMS 205x – Introduction to Diagnostic Medicine (3 cr.)

Demonstrate knowledge and application of the mechanisms, procedures, physiological basis, decision-making, and evidence based protocols used to diagnose health and disease. *DI Also required in Lower-Division Curriculum.*

BMS 245x – Client Diversity in Health Sciences: An Interdisciplinary Approach (3 cr.)

Exploration of cultural self-awareness, rules, behaviors and biases of diverse societies, and interprofessional application of effective service delivery in the health professions to culturally diverse individuals and families. *DI Also required in Lower-Division Curriculum.*

BMS 260x – Introduction to Complimentary & Alternative Medicine (3 cr.)

Educational foundation regarding the broad use of complementary and alternative practices available to consumers and health professionals and evidence based assessment of predominant complementary and alternative health care traditions and therapies. *SS, DI/IST*

CHE 124x Lab – Applied Chemistry & Society (4 cr.)

A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and laboratories and may also include discussions and demonstrations. *LS/NS*

CHE 250x – Review & Updates in Chemistry & Biochemistry (3 cr.)

The primary goal for the Review and Updates in Chemistry and Biochemistry competency set is to help students understand how chemistry is a foundation in the education of health care professionals. The competency set begins with the basics of chemistry and then illustrates how that chemistry is at work in our bodies. Students will learn how proteins, carbohydrates, lipids, and nucleic acids are built from atoms. Even though these molecules contain the same types of atoms, their structures and properties are very different. A large part of the story is to explain how these different structures play different roles in biochemical processes. *NS*

CTA 103x — Introduction to Public Speaking (3 cr.)

Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences. *AP*

ENG 101x – College Writing & Critical Reading (3 cr.)

A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings. Prereq: A grade of C or better in a basic writing course (ENG 097, ENG 098, or LEA 106 when taken as a three-credit course) or exemption through a sufficiently high placement assessment. *ENG*

ENG 102x – Critical Reading, Writing, & Research (3 cr.)

Students will either complete a placement exam or transfer in an appropriate prerequisite to qualify as ready to attempt mastery of competencies for this core course. A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading. Prereq: A grade of C or better in ENG 101 Composition I or exemption through a sufficiently high placement assessment. *ENG*

GEO 125x Lab – Physical Geography (5 cr.)

The geography of Earth's physical characteristics, including weather and climate, climate types, water, soils, Earth materials, landforms, and Earth resources; study of the processes and interactions creating Earth's physical geographic patterns. *NS*

GSW 101x – Introduction to Women's Studies (3 cr.)

An introduction to the major issues addressed by women's studies with an emphasis on interdisciplinary social science theories and methodologies involved in gaining accurate knowledge about women's lives and contributions to society, both within the United States and around the world. Perspectives, texts, and methodologies from across the social science disciplines ranging from history, economics, sociology, political science, public health, criminal justice, psychology, and others will be used to understand the experience of women and the cultural construction of gender. *IS/SS*

GSW 102x – Women's Voices (3 cr.)

An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives. *HU/IS*

HES 209x – Nutrition & Weight Control (3 cr.)

This competency set will examine the basic principles of nutrition, digestion, and metabolism and the effects of these principles on one's diet, weight, fitness level, and overall health. The functions, requirements, and applications of nutrients and nutritional needs throughout the life cycle will be studied. The competency set will also include the basic knowledge and application of nutrient recommendations, dietary guidelines, and interrelationships of foods. It will also examine the issues of

alternative nutrition, food safety, and eating disorders. The competency set will include personal diet assessment and development of personal health goals. *NS*

HIS 102x – History of the United States from the Era of the Civil War to the Present (3 cr.)

A survey of American political, economic, social, and intellectual history from the era of the Civil War to the Present. As an Ethnic Studies (ES) course, this course thoroughly integrates the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans into US history in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society. *ES/SS*

HS 105x – Survey of the Health Professions (3 cr.)

Comparison of interdisciplinary health care roles and scope of practice. Critical analysis of the health care professions with respect to the health care industry, personal values, knowledge skills, attitudes, and educational requirements.

INFOST 120x – Ethical Issues in Information Technology (3 cr.)

This competency set provides a comprehensive overview of the ethical issues in contemporary information and communication technologies. Building from a basic understanding of ethical theory, it examines an array issues, including privacy, intellectual property, information security, free speech, cyberbullying, and digital sex and violence. The ethical choices and responsibilities of users and information professionals will be considered.

INFOST 210x – Information Resources for Research (3 cr.)

Introduction to research processes necessary for effective, college-level library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.

MAT 110x – College Algebra (3 cr.)

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule. *MT*

MAT 117x – Elementary Statistics (3 cr.)

The primary aim of the competency set is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. Includes measures of central tendency, measures of variability, grouped data, the normal distribution, central limit theorem, hypothesis testing, estimation, T-distribution and chi square test. *MT Also required in Lower-Division Curriculum.*

MUS 173x – Music & Literature Appreciation (3 cr.)

A guide to the understanding of music through listening experiences in the various styles and historical periods. *FA/HU*

MUS 273x – Jazz History & Appreciation (3 cr.)

An introduction to the styles and forms of jazz through a study of its history, literature, cultural influences, musical structure, and prominent performers. *ES*

PHY 110x – Physics for Health Sciences (3 cr.)

A descriptive introduction to those basic concepts of physics which have application to human health in general and to the medical and paramedical professions in particular. Primary attention will be paid to the physics of various functions of the human body (e.g., muscular and skeletal motions, the several senses and neural processes) and to the physics of commonly used instruments and equipment. *NS*

PSY 202x – Introductory Psychology (3 cr.)

Survey of major content areas in Psychology. Topics include research methodology, learning, memory, cognition, biological psychology, sensation, perception, motivation, emotion, development, personality, psychopathology, and social psychology. *SS*

REL 101x – Introduction to the Study of Religion (3 cr.)

This course introduces students to various methods employed in the academic study of religion and will provide opportunity for students to apply these methods to diverse expressions of the religious life. *IS*

SOC 101x – Introduction to Sociology (3 cr.)

Introduction to the basic concepts, theories and methods of Sociology, emphasizing the significance of the self and culture, social process and organization, and forces of social stability and change. *SS*

Diagnostic Imaging Lower-Division Core Curriculum

BMS 205x – Introduction to Diagnostic Medicine (3 cr.)

Demonstrate knowledge and application of the mechanisms, procedures, physiological basis, decision-making, and evidence based protocols used to diagnose health and disease. *DI General Education Natural Science*

BMS 245x – Client Diversity in Health Sciences: An Interdisciplinary Approach (3 cr.)

Exploration of cultural self-awareness, rules, behaviors and biases of diverse societies, and interprofessional application of effective service delivery in the health professions to culturally diverse individuals and families. *DI*

ENG 206x – Introduction to Business and Technical Communications (3 cr.)

Students will learn to assess communication situations using core rhetorical principles of audience, purpose, and context, and, after study and practice, will demonstrate their competency in producing key verbal and written genres such as email, memos, letters, presentations, and reports. *ENG*

HCA 220x – Leading Healthcare Professionals (3 cr.)

Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.

MAT 117x – Elementary Statistics (3 cr.)

The primary aim of the competency set is a basic understanding and use of statistical concepts and methods to facilitate study and research in other disciplines. Includes measures of central tendency, measures of variability, grouped data, the normal distribution, central limit theorem, hypothesis testing, estimation, T-distribution and chi square test. *MT See also, Diagnostic Imaging General Education requirements. MT*

Diagnostic Imaging Upper-Division Core Curriculum

BMS 301x – Human Pathophysiology – Fundamentals (1 cr.)

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis. *DI*

BMS 302x – Human Pathophysiology - Organ Systems 1 (1 cr.)

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle. *DI*

BMS 303x – Human Pathophysiology - Organ Systems 2 (1 cr.)

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes. *DI*

BMS 304x – Human Pathophysiology - Organ Systems 3 (1 cr.)

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems. *DI*

BMS 305x – Human Pathophysiology - Organ Systems 4 (1 cr.)

Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality. *DI*

BMS 458x – Seminar in Advanced Diagnostic Imaging (3 cr.)

Comparison of normal and pathological anatomy cases combining ultrasound, computed tomography (CT), magnetic resonance imaging (MRI) and other technologies and their optimal clinical applications. *DI*

BMS 463x – Seminar in Education & Management in Medical Imaging (3 cr.)

Problem solving of management issues relating to diagnostic medical sonography and exploring educational strategies employed in ultrasound education. *DI*

BMS 496x – Professional Growth & Advancement in Imaging (3 cr.)

In this competency set learners will gain an appreciation for career growth and advancement opportunities through review and critique of their professional image and social media presence, opportunities for involvement as volunteers and leaders in professional associations, researching legislative, lobbying and advocacy efforts for imaging careers, reviewing the emerging trends in certification and recertification and efforts to create career pathways for mid-level providers (advanced practice). Knowledge of topics is achieved through review of past, current and trending efforts in all topics stated. Participants will display their understanding by responding to thought provoking assessment that requires researching literature and available media sites devoted to the latest information on career growth and advancements of imaging professionals.

DI

HS 311x – Law or Healthcare Professionals & Consumers (3 cr.)

An introduction to law and ethics as they relate to health care. Topics include ethical decisions, contracts, liability, malpractice, informed consent, HIPAA, litigation, healthcare technology, and trial proceedings. *DI*

KIN 400x – Ethics & Values in Health & Fitness Professions (3 cr.)

Exploration of morality and ethics and their importance in the allied health professions. *DI*

NURS 453x – Information Management & Healthcare Technology (3 cr.)

Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology. Opportunities to use and master various healthcare technologies and healthcare data will be given. *BSN, DI*

BACHELOR OF SCIENCE – NURSING – BSN

To earn this degree, students must fulfill the general education requirements necessary for a UWM bachelor's degree, elective requirements, and the unique competency sets that define this online nursing degree.

Total degree credits required: 124

General education requirements (GERs) are intended to give structure to each student's education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

Your academic success coach will assist in creating your Academic Plan of Study (APS), which will incorporate competency sets required for your program, including those that meet GERs. All transferable prior college coursework will be considered in meeting program requirements.

Oral and Written Communication Competency

Part A: Completion can be demonstrated by:

1. Earning at least three credits with a grade of C or higher in English 102,* or transferring at least three credits with a grade of C or higher in a course equivalent to English 102.

Part B: Satisfied by completing an approved advanced Competency Set or previously completed course (at least three credits) with a significant written or oral communication component.

Competency sets that count toward this requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

Quantitative Literacy Competency

Part A. Completion can be demonstrated by satisfying one of the following options:

Earning at least three credits with a grade of C or higher in Math 103 (formerly 106), 105, 175 or equivalent competency set or courses,* or

Achieving a placement code of at least 30 on the UW System mathematics placement test.

Part B. Satisfied by completing at least one approved competency set or previously completed course (at least three credits) as determined by the academic major. These make significant use of quantitative tools in the context of other course material.

Foreign Language Requirement:

Completion of the foreign language requirement can be demonstrated by satisfying one of the following options:

- Prior to enrollment at UWM, complete, with passing grades, at least two consecutive years of high school-level instruction in a single foreign language, **or**
- Complete at least two consecutive competency sets (or previously completed semesters (minimum total of six credits) of college level instruction in a single foreign language, **or**
- Demonstrate foreign language ability equivalent to two competency sets of college-level instruction by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

NOTE: Students who entered UW-Milwaukee as freshmen and/or earned transferable credit prior to September, 1999 are not responsible for this foreign language competency requirement. However, individual schools and colleges may require completion of higher level foreign language competency. Your Academic Success Coach will inform you of any such requirements. Students who previously

earned a bachelor's degree prior to enrolling with UW Flex are exempt from the foreign language requirement.

Other Exceptions to General Education Requirements

In general, second-degree candidates from an accredited institution and students whose first semester in a degree program at an accredited institution predates September 1986 are not subject to the general education requirements.

All degree programs have specific requirements beyond GER. Your Academic Success Coach will work with you to design an appropriate course of study.

Distribution Requirements

You can satisfy the distribution requirements by successfully completing competency sets or courses in the following areas:

- **Arts:** Three credits about the history, philosophy, theory, or practice of the creative and interpretive arts (e.g., visual arts, dance, music, theatre, creative writing).
- **Humanities:** Total of six credits in at least two competency sets or courses
- **History:** Any course that transfers in as "History" will satisfy requirement.
- **Natural Sciences:** Total of minimum twenty one credits.. At least one competency set or course must include laboratory or field experience involving the generation and testing of data, and the application of concepts and knowledge to the solution of problems. Natural Science requirements are as follows:
 - **Chemistry**
 - [CHEM 124x Lab](#)
 - **Biochemistry**
 - [BIO 141](#)
 - [PHY 110](#) – Physics for Health Sciences
 - [CHE 250](#) – Biochemistry
 - [NURS 375x](#) – *Genetics and Genomics for Health Professionals* (3 cr.)
This set emphasizes the relationship between the science of genetics, the study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients. *BSN*
 - **Anatomy and Physiology I**
 - Transfer credit
 - **Anatomy and Physiology II**
 - Transfer credit
 - **Microbiology**
 - Transfer credit
 - **Nutrition**
 - [HES 209](#)
- **Social Sciences:** Total of nine credits in three competency sets or courses:
 - 1) Sociology- Any transferable sociology class. Or by taking Sociology 101
 - 2) Psychology- Transfer of Psychology 101. Or by taking Psychology 101
 - 3) Growth and Development- Transfer of Psychology 250, 260, or NURS 203

Advanced Nursing Competency Sets

NURS 407x – Foundations of Professional Nursing Practice (3 cr.)

Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing practice and health care delivery are analyzed. *BSN*

NURS 441x – Chronic Care Management (3 cr.)

An exploration of the interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels. *BSN*

NURS 445x – Nursing Capstone RN-BS-Nursing (3 cr.)

A focus on the application of clinical decision making to provide comprehensive nursing care to individuals, families, groups and communities. Students are expected to demonstrate a synthesis of knowledge from current and past learning experiences in the process of providing nursing care. Involvement is with all levels of the health care delivery system with an emphasis on non-acute care. *BSN* **This competency set does have a clinical practicum component.**

NURS 446x – Research and Evidence-Based Practice (3 cr.)

An introduction to the importance of research to improve clinical practice. Strategies to evaluate the quality of research and evidence, and increase integration of research into practice are explored. *BSN*

NURS 447x – Leadership & Management (3 cr.)

Examines nursing leadership and management using relevant theories and concepts. Analyzes decision-making in relation to communication, delegation, supervision and group process. *BSN*

NURS 453x – Information Management & Healthcare Technology (3 cr.)

Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology. Opportunities to use and master various healthcare technologies and healthcare data will be given. *BSN, DI*

NURS 454x – Community Health (3 cr.)

Explores the concepts of community health nursing, public health nursing and community based nursing, A focus on nursing care of populations and communities to facilitate optimal health outcomes. *BSN*

Advanced Nursing Electives

NURS 317x – Health Assessment (3 cr.)

A focus on the knowledge and skills necessary to perform a complete health assessment of individuals of all ages and cultures. Emphasis is on extended knowledge as well as the cultural and holistic perspectives of health assessment as an essential component of nursing practice. *BSN*

NURS 365x, Section 1 – Global Health: Ethics and Human Rights (3 cr.)

Examines the broad field of global health from an ethical and human rights perspective. Students will be expected to analyze the role of nursing in addressing global health inequities. *BSN*

NURS 365x, Section 2 – Symptom Management in Chronic and Life-Limiting Illness (3 cr.)

Focuses on assessment and management of pain and common symptoms in chronic and life-limiting illnesses experienced by adults and older adults. *BSN*

NURS 375x – Genetics and Genomics for Health Professionals (3 cr.)

This set emphasizes the relationship between the science of genetics, the study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients. *BSN*

NURS 448x – Mental Health Nursing Across the Care Continuum (3cr.)

Focus on the knowledge and skills necessary for providing professional nursing care to individuals, groups, and families affected by mental illness in any setting. *BSN*

BUSINESS AND TECHNICAL COMMUNICATION CERTIFICATE – BTCC

Students will develop competencies in communication that are critical to a wide range of contemporary jobs and organizations:

ENG 206x – Introduction to Business and Technical Communication (3 cr.)

Offers practice assessing communication situations using core rhetorical principles of audience, purpose, and context, and, after study and practice, allows students to demonstrate their competency in producing key verbal and written genres such as email, memos, letters, presentations, and reports. *ENG*
Prerequisite: Completion of English 102 or equivalent, or satisfying UWM GER OWC Part A by placement testing.

ENG 428x – Strategic Writing for Organizations (3 cr.)

Students will learn how to analyze and create written responses to a wide variety of organizational issues, exigencies and crises, learning how to analyze a wide variety of communication situations and develop appropriate response plans. *ENG*

ENG 429x – Technical Communications & Organizational Leadership (3 cr.)

Students will focus on the technical writing and communication used in problem solving and in relation to both specific projects and general activities of the organization, including online and face-to-face presentations and discussions/group work, and conflict as it arises. *ENG*

ENG 435x – Advanced Business & Technical Communications (3 cr.)

Students will complicate what they learned in the introductory course, learning about the practice of business and technical communications in contemporary workplaces. They will study contemporary document processes and research, present, and write rhetorically complex business cases. *ENG*
Prerequisite: ENG 206

ENG 437x – Project Management (3 cr.)

Students will master concepts and terminology of contemporary methods and gain significant competency with the written genres of project management. In doing so, they will demonstrate their ability to plan, control, and implement sophisticated projects. *ENG*

ENG 439x – Document Design (3 cr.)

Students will develop mastery of core design principles critical to business and technical communications, learning to critique information designs; develop effective graphics, tables, and other visuals; and design useful interfaces and information architectures. *ENG*

UW-PARKSIDE

PROJECT MANAGEMENT CERTIFICATE – PMGT

Students will develop competencies in project management that are critical to a wide range of business, administrative, and creative roles.

PMGT 341x – *Basics of Project Management* (3 cr.)

In this competency set you will learn the basics of executing and completing projects efficiently. *PMGT*

PMGT 342x – *Essential Skills for Project Management* (3 cr.)

In this competency set, you will gain understanding of the skills required to successfully manage projects from conception to completion. *PMGT*

PMGT 441x – *Project Management Tools and Techniques* (3 cr.)

In this competency set you will become proficient in the skills needed to turn project management theory into practice. *PMGT*

PMGT 442x – *Project Management Simulation* (3 cr.)

In this competency set, you will practice the skills you have learned in a realistic project management simulation. *PMGT*

NON-CREDIT

UW-MADISON

SUBSTANCE USE DISORDERS COUNSELOR CERTIFICATE – SUDs

In this UW-Madison pre-certification education program you will gain the credit hours you need to fulfill the educational requirements for becoming a highly sought-after certified Wisconsin substance abuse counselor (SAC) or clinical substance abuse counselor (CSAC).

SUDS 450x – *Substance Use Disorders Counselor Preparation* (36 Continuing Education Units CEU)

Upon completion of this program, you will have demonstrated mastery of how to:

Identify and analyze an appropriate client diagnosis, treatment, or referral using multiple resources. Create a diagnostic assessment and recommendations that initiate the individual treatment plan for a client. Identify potential holistic treatments or referrals that meet client needs. Recognize and assess individual client needs when evaluating community resources. Identify and apply evidence-based counseling practices. Identify and conduct the best possible educational practices to provide your clients better knowledge of both their condition and their treatment options. Properly document client care, from intake through discharge and beyond. Articulate standards of ethical conduct and professional behavior befitting a practicing substance abuse counselor.

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