



# Program Under Revision

## General Studies Certificate

Certificate No: 10-800-1

District Certificate

Degree Completion Time: Varies  
Degree completion time may vary based on student scheduling needs and class availability.

2008-2009

Catalog No.	Class Title	Credit(s)	<b>About the Transfer Agreement</b>
<b>Communications</b>			<p>LTC is proud to feature two types of agreements within the University of Wisconsin system.</p> <p>UW Colleges—The General Education Certificate allows students to earn credits at LTC that transfer to the Wisconsin College System Associate of Arts (AAS) degree. To earn the certificate, students must complete 30-36 LTC credits with an overall grade point average of 2.00 or higher. These credits can be applied toward the UW college's AAS degree.</p> <p>Four-Year UW Universities—The General Education Certificate allows students to qualify for sophomore status at select UW campuses.</p> <p><b>About the Certificate</b></p> <ul style="list-style-type: none"> <li>• The certificate includes a core of courses designed to meet specific general education requirements at the specific UW college/university.</li> <li>• The certificate provides a smooth transition to select two-year and four-year colleges in Wisconsin.</li> <li>• Classes are available in a variety of formats.</li> <li>• Classes begin at multiple dates and times throughout the year.</li> <li>• Classes are available in a variety of locations—Cleveland, Manitowoc, Sheboygan, and other locations throughout the LTC district.</li> </ul> <p>Please refer to the LTC website at <a href="http://www.gotoltc.edu">www.gotoltc.edu</a> for up-to-date information about agreements with individual UW colleges/universities.</p> <p>For more information about the transfer certificate, please contact the General Education Office at 1.888.468.6582, extension 1209, or 920.693.1209.</p> <p>LTC anticipates that transfer certificates will become available for additional colleges. Please contact the General Education Office or the LTC website for updates.</p> <p><b>Admission Steps</b></p> <ul style="list-style-type: none"> <li>• Application</li> <li>• Certificate Fee</li> <li>• Entrance Assessments (refer to course descriptions for minimum scores)</li> <li>• Transcripts</li> <li>• Advising Session</li> <li>• Application for Completion</li> </ul>
10801195	Written Communication	3.00	
10801196	Oral/Interpersonal Communication	3.00	
10801197	Technical Reporting	3.00	
10801198	Speech	3.00	
<b>Mathematics</b>			
10804106	Introduction to College Math	3.00	
10804110	Elementary Algebra with Applications	3.00	
10804113	College Technical Math 1A	3.00	
10804114	College Technical Math 1B	2.00	
10804115	College Technical Math 1	5.00	
10804123	Math w/ Business Apps	3.00	
10804133	Math & Logic	3.00	
<b>Social Science</b>			
10809122	Introduction to American Government	3.00	
10809166	Introduction to Ethics: Theory and Application	3.00	
10809172	Race, Ethnic, and Diversity Studies	3.00	
10809195	Economics	3.00	
10809196	Sociology—Intro to	3.00	
<b>Behavioral Science</b>			
10809159	Abnormal Psychology	3.00	
10809188	Developmental Psychology	3.00	
10809198	Intro to Psychology	3.00	
<b>Natural Science</b>			
10806103	Body Structure and Function	3.00	
10806134	General Chemistry	4.00	
10806154	General Physics I	4.00	
10806177	General Anatomy and Physiology	4.00	
10806179	Advanced Anatomy and Physiology	4.00	
10806186	Introduction to Biochemistry	3.00	
10806197	Microbiology	4.00	
<b>Foreign Language</b>			
10802101	Spanish I	2.00	
<b>Note:</b>	Program start dates vary; check with your counselor for details.		
	Curriculum and program acceptance requirements are subject to change.		

# Transfer agreements are available with the following institutions:

UW-Green Bay  
UW-Oshkosh

IMPORTANT: For more information on these agreements, visit [gotoltc.edu/transfer](http://gotoltc.edu/transfer).

## **10801195 Written Communication**

...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents.

## **10801196 Orral/Interpersonal Communication**

...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects.

## **10801197 Technical Reporting**

...provides students with the skills to prepare and present oral and written technical reports. Types of reports may include lab and field reports, proposals, technical letters and memos, technical research reports, and case studies. Designed as an advanced communication course for students who have completed at least the prerequisite introductory writing course.

**PREREQUISITE:** 10801195 *Written Communication* or 10801195TV *Written Communication ITV*

## **10801198 Speech**

...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course.

## **10802101 Spanish I**

...introduces the learner to basic conversational vocabulary, phrases, and grammar through practice in listening, speaking, reading, and writing. Learners will apply customs and values of the Spanish-speaking world to their communication.

## **10804106 Introduction to College Math**

...is an introductory level course designed to review and develop fundamental concepts of arithmetic, algebra, geometry, and statistics. Emphasis will be placed on computational skills and applications of rational numbers; problem solving skills with ratios, proportions, and percent; basic principles and application of algebra, geometry, graphing, and statistics; measurement skills in U.S. Customary and Metric Systems; and the use of calculators as a tool.

**PREREQUISITE:** *Accuplacer Math minimum score of 79 or Equivalent*

## **10804110 Elementary Algebra with Applications**

...offers traditional algebra topics with applications. Learners develop algebraic problem solving techniques needed for technical problem solving and for more advanced algebraic studies. Topics include linear equations, exponents, polynomials, rational expressions, and roots and radicals. Successful completion of this course prepares learners to succeed in technical mathematics courses.

**PREREQUISITE:** *Accuplacer Math score of 79 or Equivalent or 10804100 Math Proficiency*

## **10804113 College Technical Math 1A**

...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1.

**PREREQUISITE:** *Accuplacer Math minimum score of 79 or Equivalent or 10804100 Math Proficiency*

## **10804114 College Technical Math 1B**

...is a continuation of College Technical Math 1A. Topics include: measurement systems; computational geometry; right and oblique triangle trigonometry; and trigonometric functions on the unit circle. Emphasis will be on the application of skills to technical problems. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1.

**PREREQUISITE:** 10804113 *College Tech Math 1A*, or 10804196 *College Tech Math 1A*, or 10804109 *Algebra Computation*

## **10804115 College Technical Math 1**

...prepares the student to solve linear, quadratic, and rational equations; graphing; formula rearrangement; solve systems of equations; percent; proportions; measurement systems; computational geometry; right and oblique triangle trigonometry; trigonometric functions on the unit circle; and operations on polynomials. Emphasis will be on the application of skills to technical problems. This course is the equivalent of successful completion of College Tech Math 1a and 1b.

**PREREQUISITE:** *Accuplacer Math minimum score of 100 or Equivalent*

## **10804123 Math w/ Business Apps**

...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications.

**PREREQUISITE:** *Accuplacer Math minimum score of 79 or Equivalent or 10804100 Math Proficiency*

## **10804133 Math & Logic**

...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases.

**PREREQUISITE:** *Accuplacer Math minimum score of 79 or Equivalent or 10804100 Math Proficiency*

## **10806103 Body Structure and Function**

...introduces the learner to the structures and functions of the integumentary, musculoskeletal, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems.

## **10806134 General Chemistry**

...covers the fundamentals of chemistry. Topics include the metric system, problem-solving, periodic relationships, chemical reactions, chemical equilibrium, properties of water; acids, bases, and salts; and gas laws.

**PREREQUISITE:** 10804196 *College Tech Math 1A* or 10804113 *College Tech Math 1A* or 10804109 *Algebra Comp* or 10804121 *Technical Math 1* or 10804108 *ModuMath Algebra* or 10804195 *College Tech Math 1* or 10804115 *College Tech Math 1* or *College Algebra equivalent*

## **10806154 General Physics I**

...presents the applications and theory of basic physics principles. This course emphasizes problem-solving, laboratory investigation, and applications. Topics include unit conversions and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves.

**PREREQUISITE:** 10804121 *Technical Math I* or 10804116 *Trigonometry* or **COREQUISITE:** 10804197 *College Tech Math 1B* or 10804114 *College Tech Math 1B* or 10804115 *College Tech Math 1*

## **10806177 General Anatomy and Physiology**

...examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients.

**PREREQUISITE:** 10806174 *General Chemistry* or 10806134 *General Chemistry or High School Chemistry Equivalent*

## **10806179 Advanced Anatomy and Physiology**

...is the second semester in a two-semester sequence in which normal human anatomy and physiology are studied using a body systems approach with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization.

Instructional delivery within a classroom and laboratory setting. Experimentation within a science lab will include analysis of cellular metabolism, the individual components of body systems such as the nervous, neuro-muscular, cardiovascular, and urinary. Continued examination of homeostatic mechanisms and their relationship to fluid, electrolyte, acid-base balance and blood. Integration of genetics to human reproduction and development are also included in this course.

**PREREQUISITE:** 10806177 *General Anatomy & Physiology*

## **10806186 Introduction to Biochemistry**

...provides students with skills and knowledge of organic and biological chemistry necessary for application within Nursing and other Allied Health careers. Emphasis is placed on recognizing the structure, physical properties and chemical reactions of organic molecules, body fluids, and acids. Additional emphasis is placed on biological functions and their relationships to enzymes, proteins, lipids, carbohydrates and DNA.

**PREREQUISITE:** 10806134 *General Chemistry* or 10806174 *General Chemistry or High School Chemistry Equivalent*

## **10806197 Microbiology**

...introduces the learner to examine microbial structure, metabolism, genetics, growth and relationship between humans and microorganisms. Addresses disease production, epidemiology, host defense mechanisms and the medical impact of microbes. Examines the role of microbes in the environment, industry, and biotechnology.

**PREREQUISITE:** 10806195 *Anat and Phys I*, or 10806177 *General Anat and Physiology*

## **10809122 Introduction to American Government**

...introduces American political processes and institutions. It focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. It explores the role of the media, interest groups, political parties and public opinion in the political process. It also explores the role of state and national government in our federal system.

## **10809159 Abnormal Psychology**

...surveys the essential features, possible causes, and assessment and treatment of the various systems of abnormal behavior from the viewpoint of the major theoretical perspectives in the field of abnormal psychology. Students will be introduced to the diagnosis system of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV). In addition, the history of the psychology of abnormality will be traced. Cultural and social perspectives in understanding and responding to abnormal behavior will be explored as well as current topics and issues within abnormal psychology.

**PREREQUISITE:** 10809198 *Psychology-Introduction*, or 10809199 *Psychology of Human Relations*

## **10809166 Introduction to Ethics: Theory and Application**

...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decision-making process to these situations.

## **10809172 Race, Ethnic, and Diversity Studies**

...is a course that draws from several disciplines to reaffirm the basic American values of justice and equality by teaching a basic vocabulary, a history of immigration and conquest, principles of transcultural communication, legal liability and value of aesthetic production to increase the probability of respectful encounters among people. In addition to an analysis of majority/minority relations in a multicultural context, the topics of ageism, sexism, gender differences, sexual orientation, the disabled and the American Disability Act (ADA) are explored. Ethnic relations are studied in global and comparative perspectives.

## **10809188 Developmental Psychology**

...introduces the student to the study of human development throughout the lifespan. This course explores developmental theory and research with an emphasis on the interactive nature of the biological, cognitive, and psychosocial changes that affect the individual from conception to death. Application activities and critical thinking skills will enable students to gain an increased knowledge and understanding of themselves and others.

## **10809195 Economics**

...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues.

## **10809196 Sociology—Intro**

...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.

## **10809198 Intro to Psychology**

...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.