Nursing - Associate Degree
10-543-1 Associate Degree (two-year)

Program Overview
Nursing is the dynamic interpersonal goal-directed process that seeks to promote optimal health within the context of individuals, family, community, and society. The concept of caring, which is central to nursing, is communicated through both attitude and action. Nursing uses the nursing process, a problem-solving approach, to provide holistic care to individuals, families, and groups within the healthcare system. Through collaboration with other healthcare professionals, nursing is responsive to the needs of the community across the health-illness continuum.

Special Features
An agreement between the Wisconsin Technical College System (WTCS) and the University of Wisconsin System (UWS) and some other private colleges allows graduates of the WTCS Nursing - Associate Degree program to transfer with junior standing, into their baccalaureate nursing program.

For the student that is a licensed practical nurse (LPN) and is interested in becoming a registered nurse (RN), WITC offers an “LPN Progression to ADN Track.” This LPN progression pathway provides advanced standing for nursing courses in ADN Semesters 1 and 2 of the WITC ADN program. Additionally, credits may be transferred from the practical nursing program if the General Studies and/or elective credits were at an associate degree level. Contact the campus admissions advisor for more information.

Pre-Nursing Admission Requirements
Students in the pre-Nursing program must:
- Complete application form and submit with fee (fee waiver may apply if previously submitted)
- Complete Accuplacer entrance assessment to determine placement (waiver may apply with acceptable alternative test scores and/or postsecondary degree completion); note: required Accuplacer entrance assessment scores for core Nursing coursework are higher than pre-Nursing scores
- Have earned a high school diploma or GED certificate; current high school seniors must provide documentation upon graduation
- Complete WITC pre-ADN Admissions Quiz
- Review and sign Accuplacer Background Check and/or Criminal History Record Check Statement of Understanding
- Review and sign Functional Ability Statement of Understanding
- Complete admissions meeting with a WITC counselor (above requirements should be completed prior to meeting)

Program-Specific Requirements
Pre-Nursing students must complete the petition process to be eligible for the core Nursing program (go to: http://www.witc.edu/pgmpages/nurseassoc/admissions for details). In addition to the requirements above, students in this program must:
- Complete one year of high school chemistry or one term of college-level chemistry with a 2.0 or better
- Complete a Nursing Assistant course with grade of C (2.0) or better

Career Pathway Options
Career Pathways connect progressive levels of coursework to allow students to build upon their education. Each step in the pathway connects with employment options and provides the opportunity for advancement to higher levels. The Nursing - Associate Degree program includes the following pathway options:
- 31-543-1 Practical Nursing
- 30-543-1 Nursing Assistant (page 160)

*Review the online informational presentation at www.witc.edu/pgmpages/nurseassoc/admissions
*Complete priority petition for admission forms:
- WITC transcripts to verify course completion
- Review and sign Caregiver Background Check and/or Criminal History Record Check Statement of Understanding
- Complete priority petition for admission forms:
- Prior to attendance in core Nursing coursework, student must:
  - Submit Background Check fee
  - Have an acceptable Wisconsin Caregiver Background Check, National Criminal Background Check, Minnesota Caregiver Background Check (if applicable), and other states if applicable
  - Pass a physical exam, have current immunizations, and demonstrate negative status for tuberculosis (TB)
  - Possess current certification of “CPR for Healthcare Providers” or the equivalent
  - Review and sign Allied Health Division Confidentiality Statement
  - Attend a mandatory orientation session

Program Outcomes
Employers will expect graduates of the ADN program to be able to:
- Implement one’s role as a nurse in ways that reflect integrity, responsibility, ethical practices, and an evolving professional identity as a nurse committed to evidence-based practice, caring, advocacy, and quality care
- Demonstrate appropriate written, verbal, and nonverbal communication in a variety of clinical contexts
- Integrate social, mathematical, and physical sciences, pharmacology, and pathophysiology in clinical decision making
- Provide patient centered care by utilizing the nursing process across diverse populations and health care settings
- Minimize risk of harm to patients, members of the healthcare team, and self through safe individual performance and participation in system effectiveness
- Lead the multidisciplinary health care team to provide effective patient care throughout the lifespan
- Use information and technology to communicate, manage data, mitigate error, and support decision-making
- Employability essentials and indicators will also be addressed to develop personal awareness, career effectiveness, and professionalism. See page 5 of the college catalog for a list of employability essentials and indicators.

Career Outlook
Graduates of this program will be qualified for the following positions:
* Registered Nurse

WITC’s Nursing - Associate Degree program is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), formerly NLNAC, and approved by the Wisconsin State Board of Nursing. Concerns about the Nursing - Associate Degree program or questions about current status may be communicated to the Accreditation Commission for Education in Nursing, Inc. (ACEN), formerly NLNAC, located at 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, phone 404-975-5000. Concerns may also be directed to the Wisconsin State Board of Nursing, PO Box 8935, Madison, WI 53708-8935, phone (877) 617-1565.

Curriculum

<table>
<thead>
<tr>
<th>Number Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>10543101 Nursing Fundamentals</td>
<td>* 2</td>
</tr>
<tr>
<td>10543102 Nursing Skills</td>
<td>* 3</td>
</tr>
<tr>
<td>10543103 Nursing Pharmacology</td>
<td>* 2</td>
</tr>
<tr>
<td>10543104 Nursing: Intro to Clinical Practice</td>
<td>* 2</td>
</tr>
<tr>
<td>10543105 Nursing Health Alterations</td>
<td>* 3</td>
</tr>
<tr>
<td>10543106 Nursing Health Promotion</td>
<td>* 3</td>
</tr>
<tr>
<td>10543107 Nursing: Clinical Care Across Lifespan</td>
<td>* 2</td>
</tr>
<tr>
<td>10543108 Nursing: Intro to Clinical Care Management</td>
<td>* 2</td>
</tr>
<tr>
<td>10543109 Nursing: Complex Health Alterations</td>
<td>* 3</td>
</tr>
<tr>
<td>10543110 Nursing: Mental Health and Community Concept</td>
<td>* 2</td>
</tr>
<tr>
<td>10543111 Nursing: Intermediate Clinical Practice</td>
<td>* 3</td>
</tr>
<tr>
<td>10543112 Nursing Advanced Skills</td>
<td>* 1</td>
</tr>
<tr>
<td>10543113 Nursing: Complex Health Alterations</td>
<td>* 2</td>
</tr>
<tr>
<td>10543114 Nursing: Management and Professional Concept</td>
<td>* 2</td>
</tr>
<tr>
<td>10543115 Nursing: Advanced Clinical Practice</td>
<td>* 3</td>
</tr>
<tr>
<td>10543116 Nursing Clinical Transition</td>
<td>* 2</td>
</tr>
<tr>
<td>10801136 English Composition 1</td>
<td>* 3</td>
</tr>
<tr>
<td>10801154 Oral/Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>10801198 Speech</td>
<td>3</td>
</tr>
<tr>
<td>10806177 General Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>10806179 Advanced Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>10806197 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>10809188 Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>10809196 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>10809198 Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTIVES
PROGRAM REQUIREMENTS

* Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.
* See pages 41-43 for course descriptions.
* Course repeat and failure policies exist within the ADN program that allow for only a certain number of retakes and failures of these classes; please refer to these policies for details.

All courses in the ADN program must be completed with a grade of C (2.0) or better, except 10806177 General Anatomy & Physiology and 10806197 Advanced Anatomy & Physiology, which must be completed with a "B" or better.

*Not an embedded program, but a prerequisite for this program

---

Campus: WITC New Richmond
Technical College

Financial Aid Eligible

<table>
<thead>
<tr>
<th>Campus:</th>
<th>Ashland</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Richmond</td>
<td>Rice Lake</td>
</tr>
<tr>
<td>Technical College</td>
<td>Superior</td>
</tr>
</tbody>
</table>

800.243.9482
witc.edu
2017-2018
Course Descriptions

(See pages 41-43 for General Studies course descriptions)

10543101 Nursing Fundamentals - Credits: 2
This course focuses on basic nursing concepts that the beginning nurse will need to provide care to diverse patient populations across the lifespan. Current and historical issues impacting nursing will be explored within the scope of nursing practice. The nursing process will be introduced as a framework for organizing the care of patients with alterations in cognition, elimination, comfort, growth and development, mobility, integrity, and fluid/electrolyte balance. PREREQUISITE: Admission to Nursing program and COREQUISITE: 10806177 General Anatomy and Physiology.

10543102 Nursing Skills - Credits: 3
This course focuses on development of clinical skills and physical assessment across the lifespan. Content includes mathematical calculations and conversions related to clinical skills, blood pressure assessment, aseptic technique, wound care, oxygen administration, tracheostomy care, suctioning, management of enteral tubes, basic medication administration, glucose testing, enemas, ostomy care, and catheterization. In addition the course includes techniques related to obtaining a health history and basic physical assessment skills using a body systems approach. PREREQUISITE: Admission to Nursing program or current LPN license and COREQUISITE: 10806177 General Anatomy and Physiology.

10543103 Nursing Pharmacology - Credits: 2
This course introduces the principles of pharmacology, including drug classifications and their effects on the body. Emphasis is on the use of the components of the nursing process when administering medications. PREREQUISITE: Admission to the Nursing program and COREQUISITE: 10806177 General Anatomy and Physiology.

10543104 Nursing: Intro to Clinical Practice - Credits: 2
This introductory clinical course emphasizes basic nursing skills and application of the nursing process in meeting the needs of diverse clients. Emphasis is placed on performing basic nursing skills, the formation of nurse-client relationships, communication, data collection, documentation, and medication administration. COREQUISITES: 10543101 Nursing Fundamentals, 10543102 Nursing Skills, and 10543103 Nursing Pharmacology, 10808136 English Composition 1, 10809188 Developmental Psychology, and 10806177 General Anatomy and Physiology.

10543105 Nursing Health Promotion - Credits: 3
This course will cover topics related to health promotion for individuals and families throughout the lifespan. We will cover nursing care of the developing family, which includes reproductive issues, pregnancy, labor and delivery, postpartum, the newborn, and the child. Recognizing the spectrum of healthy families we will discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. An emphasis is placed on teaching and supporting healthy lifestyles choices for individuals of all ages. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family will cover dynamics, functions, discipline styles, and stages of development. PREREQUISITES: 10543101 Nursing Fundamentals, 10543102 Nursing Skills, 10543103 Nursing Pharmacology, 10543104 Nursing: Introduction to Clinical Practice, 10086177 General Anatomy and Physiology, and 10809188 Developmental Psychology and COREQUISITE: 10806179 Advanced Anatomy and Physiology.

10543107 Nursing: Clinical Care Across Lifespan - Credits: 2
This clinical experience applies nursing concepts and therapeutic interventions to clients across the lifespan. It also provides an introduction to concepts of teaching and learning. Extending care to include the family is emphasized COREQUISITE:10543106 Nursing Health Promotion.

10543108 Nursing: Intro to Clinical Care Management - Credits: 2
This clinical experience applies nursing concepts and therapeutic interventions to groups of clients across the lifespan. It also provides an introduction to leadership, management, and team building. COREQUISITES: 10543105 Nursing Health Alterations, 10806179 Advanced Anatomy and Physiology, and 10809196 Oral/Interpersonal Communication.

10543109 Nursing: Complex Health Alterations 1 - Credits: 3
Complex Health Alterations 1 prepares the learner to expand knowledge from previous courses in caring for clients across the lifespan with alterations in cardiovascular, respiratory, endocrine, and hematologic systems as well as clients with fluid/electrolyte and acid-base imbalance, and alterations in comfort. PREREQUISITES: 10543105 Nursing Health Alterations, 10543106 Nursing Health Promotion, 10543107 Nursing: Clinical Care Across the Lifespan, 10543108 Nursing: Introduction to Clinical Care Management, 10806179 Advanced Anatomy and Physiology, and COREQUISITE: 10806197 Microbiology.

10543110 Nursing: Complex Health Alterations 2 - Credits: 3
This advanced clinical course requires the student to integrate concepts from all previous courses in the management of groups of clients facing complex health care needs. Specific health needs of individuals, families, and groups will be addressed across the lifespan. Attention will be given to diverse and at-risk populations. Mental Health concepts will concentrate on adaptive/ maladaptive behaviors and specific mental health disorders. Community resources will be examined in relation to specific types of support offered to racial, ethnically diverse individuals and groups. PREREQUISITES: 10543105 Nursing Health Alterations, 10543106 Nursing Health Promotion, 10543107 Nursing: Clinical Care Across the Lifespan, 10543108 Nursing: Introduction to Clinical Care Management, 10806179 Advanced Anatomy and Physiology, and COREQUISITE: 10809198 Introduction to Psychology.

10543111 Nursing: Intermediate Clinical Practice - Credits: 3
This intermediate level clinical course develops the RN role when working with clients with complex health care needs. A focus of the course is developing skills needed for managing multiple clients across the lifespan and priorities. Using the nursing process, students will gain experience in adapting nursing practice to meet the needs of clients with diverse needs and backgrounds. COREQUISITES: 10543109 Nursing Complex Health Alterations 1, 10543110 Nursing: Mental Health and Community Concepts, and 10543112 Nursing Advanced Skills, 10809198 Introduction to Psychology, and 10806197 Microbiology.

10543112 Nursing Advanced Skills - Credits: 1
This course focuses on the development of advanced clinical skills. Content includes advanced IV skills, blood product administration, chest tube systems, basic EKG interpretation and nasogastric/feeding tube insertion. PREREQUISITES: 10543105 Nursing Health Alterations, 10543107 Nursing: Clinical Care Across the Lifespan, 10543108 Nursing: Introduction to Clinical Care Management, and 10806179 Advanced Anatomy and Physiology.

10543113 Nursing: Complex Health Alterations 2 - Credits: 3
Complex Health Alterations 2 prepares the learner to expand knowledge and skills from previous courses in caring for clients across the lifespan with alterations in the immune, neurosensory, musculoskeletal, gastrointestinal, hepato-biliary, renal/urinary and the reproductive systems. The learner will also focus on management of care for clients with high-risk perinatal conditions, high-risk newborn and the ill child. Synthesis and application of previously learned concepts will be evident in the management of clients with critical life threatening situations. COREQUISITES: 10543109 Nursing Complex Health Alterations 1, 10543110 Nursing: Mental Health and Community Concepts, 10543111 Nursing: Intermediate Clinical Practice, 10543112 Nursing Advanced Skills, and 10806197 Microbiology.

10543114 Nursing: Management and Professional Concepts - Credits: 2
This course covers nursing management and professional issues related to the role of the RN. Emphasis is placed on preparing for the RN practice. PREREQUISITES: 10543109 Nursing Complex Health Alterations 1, 10543110 Nursing: Mental Health and Community Concepts, 10543111 Nursing: Intermediate Clinical Practice, and 10543112 Nursing Advanced Skills.

10543115 Nursing: Advanced Clinical Practice - Credits: 3
This advanced clinical course requires the student to integrate concepts from all previous courses in the management of groups of clients facing complex health alterations. Students will have the opportunity to further develop critical thinking skills using the nursing process in making clinical decisions. Continuity of care through interdisciplinary collaboration is emphasized. COREQUISITES: 10543113 Nursing Complex Health Alterations 2, and 10809196 Introduction to Sociology.

10543116 Nursing Clinical Transition - Credits: 2
This clinical experience integrates all knowledge learned in the previous courses in transitioning to the role of the graduate nurse. The course promotes relatively independent clinical decisions, delegation, and works collaboratively with others to achieve client and organizational outcomes. Continued professional development is fostered. PREREQUISITES: 10543113 Nursing Complex Health Alterations 2, 10543114 Nursing Management and Professional Concepts, and 10543115 Nursing Advanced Clinical Practice.

Graduate Employment Information
(WITC Graduate Survey Responses 2014-2015; for most recent data, go to wic.edu)

<table>
<thead>
<tr>
<th>Number of graduates</th>
<th>Number employed</th>
<th>% employed in WITC district</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>95</td>
<td>51%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of responses</th>
<th>Percent employed</th>
<th>Range of yearly salary</th>
<th>Average yearly salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>99</td>
<td>100%</td>
<td>$37,437-$75,145</td>
<td>$52,592</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number available for employment</th>
<th>Employed in related field</th>
</tr>
</thead>
<tbody>
<tr>
<td>95</td>
<td>94</td>
</tr>
</tbody>
</table>
General Studies

General Information

General Studies offers courses in communication, mathematics, science, social science, and behavioral science that provide the foundation for degree, certificate, and diploma programs at WITC. A General Studies certificate is also offered.

Prepared Learner courses equip students with the skills necessary to master college-level curricula. Accuplacer test scores, academic history, self-awareness, and/or length of time away from formal education steer students to these courses. Prepared Learner courses carry college credits and are eligible for financial aid. They cannot be counted for degree credit. Students whose placement scores require Prepared Learner enrollment must complete each required class with a grade of C or higher before registering for the subsequent General Studies course.

Academic Support offers individualized and group instruction in English, social studies, science, reading, mathematics, English Language Learning (ELL), civics, health, career exploration, and employability skills. Persons may attend classes to prepare for entry into specific WITC courses, to receive academic support with current program course materials, to prepare for employment, to increase knowledge of oral and written communication, and to fulfill personal goals. GED/HSED preparation and testing services are also available.

Liberal Arts Courses and Degrees

WITC is collaborating with Nicolet Area Technical College (NATC) to offer all those at WITC a full slate of Liberal Arts courses. Many NATC course are provided IPV to each of our main campuses, while others are offered online. The combination of WITC General Studies courses and NATC courses enable a WITC student to work toward a full Associate of Arts or Associate of Science degree, while still living, working and going to school near home. For more information, see the Liberal Arts degree pages (pp. 132-135).

General Studies Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10801136</td>
<td>English Composition</td>
</tr>
<tr>
<td>10801196</td>
<td>Oral/Interpersonal Communication</td>
</tr>
<tr>
<td>10801197</td>
<td>Technical Reporting</td>
</tr>
<tr>
<td>10801198</td>
<td>Speech</td>
</tr>
<tr>
<td>32801361</td>
<td>Applied Communications 1</td>
</tr>
<tr>
<td>32801363</td>
<td>Applied Communications 2</td>
</tr>
<tr>
<td>10831103</td>
<td>Intro to College Writing</td>
</tr>
<tr>
<td>10831004</td>
<td>Intro to College Reading</td>
</tr>
<tr>
<td>76851740</td>
<td>Writing Foundations</td>
</tr>
<tr>
<td>76851750</td>
<td>Writing Foundations for Trades</td>
</tr>
<tr>
<td>76858740</td>
<td>Reading Foundations</td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10804113</td>
<td>College Technical Mathematics 1A</td>
</tr>
<tr>
<td>10804114</td>
<td>College Technical Mathematics 1B</td>
</tr>
<tr>
<td>10804115</td>
<td>College Technical Mathematics 1</td>
</tr>
<tr>
<td>10804116</td>
<td>College Technical Mathematics 2</td>
</tr>
<tr>
<td>10804123</td>
<td>Math with Business Applications</td>
</tr>
<tr>
<td>10804133</td>
<td>Mathematics and Logic</td>
</tr>
<tr>
<td>10804134</td>
<td>Mathematical Reasoning</td>
</tr>
<tr>
<td>10804138</td>
<td>Math for Health Professionals</td>
</tr>
<tr>
<td>10804189</td>
<td>Introductory Statistics</td>
</tr>
<tr>
<td>32804355</td>
<td>Math 355</td>
</tr>
<tr>
<td>32804364</td>
<td>Math 364</td>
</tr>
<tr>
<td>32804365</td>
<td>Math 365</td>
</tr>
<tr>
<td>32804373</td>
<td>Math 373</td>
</tr>
<tr>
<td>32804383</td>
<td>Math 383</td>
</tr>
<tr>
<td>10834109</td>
<td>Pre-Algebra</td>
</tr>
<tr>
<td>76854745</td>
<td>Math Foundations</td>
</tr>
<tr>
<td>76854740</td>
<td>Math Foundations for Health</td>
</tr>
<tr>
<td>76854750</td>
<td>Math Foundations for Trades</td>
</tr>
</tbody>
</table>

Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10806112</td>
<td>Principles of Sustainability</td>
</tr>
<tr>
<td>10806114</td>
<td>General Biology</td>
</tr>
<tr>
<td>10806122</td>
<td>Natural Sciences in Society</td>
</tr>
<tr>
<td>10806134</td>
<td>General Chemistry</td>
</tr>
<tr>
<td>10806140</td>
<td>Chemistry</td>
</tr>
<tr>
<td>10806175</td>
<td>Pathophysiology</td>
</tr>
<tr>
<td>10806177</td>
<td>General Anatomy and Physiology</td>
</tr>
<tr>
<td>10806179</td>
<td>Advanced Anatomy and Physiology</td>
</tr>
<tr>
<td>10806197</td>
<td>Microbiology</td>
</tr>
<tr>
<td>10806198</td>
<td>Human Biology</td>
</tr>
</tbody>
</table>

Social Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10809122</td>
<td>Introduction to American Government</td>
</tr>
<tr>
<td>10809166</td>
<td>Introduction to Ethics: Theory and Application</td>
</tr>
<tr>
<td>10809172</td>
<td>Introduction to Diversity Studies</td>
</tr>
<tr>
<td>10809174</td>
<td>Social Problems</td>
</tr>
<tr>
<td>10809195</td>
<td>Economics</td>
</tr>
<tr>
<td>10809196</td>
<td>Introduction to Sociology</td>
</tr>
</tbody>
</table>

Behavioral Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10809159</td>
<td>Abnormal Psychology</td>
</tr>
<tr>
<td>10809188</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>10809198</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>32809371</td>
<td>Applied Human Relations</td>
</tr>
</tbody>
</table>

Interdisciplinary

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10835103</td>
<td>Study Skills</td>
</tr>
<tr>
<td>10890100</td>
<td>Success Strategies 1</td>
</tr>
<tr>
<td>10890101</td>
<td>Success Strategies 2</td>
</tr>
<tr>
<td>10890105</td>
<td>Job Quest</td>
</tr>
<tr>
<td>10890120</td>
<td>Service Learning</td>
</tr>
<tr>
<td>32890300</td>
<td>Contemporary Workplace</td>
</tr>
<tr>
<td>32890305</td>
<td>Applied Information Resources</td>
</tr>
</tbody>
</table>

Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better unless otherwise specified by program requirements.

Academic Support Courses

Various levels of coursework are offered in the following areas:

- English
- Social Studies
- Science
- Reading
- Mathematics
- English Language Learning (ELL)
- Civics
- Health
- Employability Skills
- GED/HSED Orientation
Communication

10081136
English Composition 1 - Credits: 3
This course is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals will develop critical reading skills through analysis of various written documents. PREREQUISITE: Established scores on placement assessments or COREQUISE: 10831103 Intro to College Writing.

10081196
Oral/Interpersonal Communication - Credits: 3
Focuses upon developing speaking, verbal and nonverbal communication, and listening skills through individual presentations, group activities, and other projects.

10081197
Technical Reporting - Credits: 3
The student will 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: 10081196 English Composition 1.

10081201
Speech - Credits: 3
Explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, preparing evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course.

32801361
Applied Communications 1 - Credits: 2
This basic communication course focuses on effective listening, speaking, reading, and writing in life and at work. Students demonstrate their skills both individually and in groups. Students also produce such employment documents as cover letters, résumés, and a preliminary job portfolio. PREREQUISITE: Established score on placement assessment or COREQUISE: 76851750 Writing Foundations for Trades.

32801363
Applied Communications 2 - Credits: 2
This course fully explores effective listening, speaking, reading, and writing in the workplace. Students take notes, deliver presentations, work in groups, and write program-related documents. Students also complete professional portfolios, making them interview ready. PREREQUISITE: 32801361 Applied Communications 1.

10831103
Intro to College Writing - Credits: 3
This transitional course prepares students for enrollment in English Composition 1 and introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents. PREREQUISITE: Established scores on placement assessment or 76851740 Writing Foundations.

10831804
Intro to College Reading - Credits: 2
Provides learners with opportunities to develop and expand reading skills, including comprehension and vocabulary. Learners apply their academic and critical thinking tasks and read to acquire information from a variety of sources. PREREQUISITE: Established score on placement assessment or 76858740 Reading Foundations.

76851740
Writing Foundations Writing Foundations is a course designed to improve a student’s writing skills to prepare the student for success in Intro to College Writing. Completing the course with a grade of C or higher will allow a student to enter into Intro to College Writing. PREREQUISITE: Established score on placement assessment or Academic Support Writing.

76851750
Writing Foundations for Trades Writing Foundations for Trades is a course designed to improve a student's writing skills to prepare the student for success in trades programs. PREREQUISITE: Established score on placement assessment or Academic Support Writing.

76858740
Reading Foundations Reading Foundations is a course designed to improve a student’s reading skills to prepare the student for success in Intro to College Reading. Completing the course with a grade of C or higher will allow a student to enter into College Reading. PREREQUISITE: Established score on placement assessment or Academic Support Reading.

Mathematics

10804113
College Technical Mathematics 1A - Credits: 3
Topics include: solving linear equations, graphing, percent, proportions, measurement systems, computational geometry, and right triangle trigonometry. 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 1A. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra.

10804114
College Technical Mathematics 1B - Credits: 2
This course is a continuation of College Technical Mathematics 1A. Topics include: performing operations on polynomials, solving quadratic and rational equations, formula rearrangement, solving systems of equations, and oblique triangle trigonometry. Emphasis will be on the application of skills to technical problems. Successful completion of concurrent enrollment in College Technical Mathematics 1A is required for course enrollment. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1. COREQUISE: 10804113 College Technical Mathematics 1A.

10804115
College Technical Mathematics 1 - Credits: 5
Topics include: solving linear, quadratic, and rational equations; graphing; formula rearrangement; solving systems of equations; percent; proportions; measurement systems; computational geometry; right and oblique triangle trigonometry; 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 Technical Mathematics 1A and College Technical Mathematics 1B. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra.

10804116
College Technical Mathematics 2 - Credits: 4
Topics include: vectors; trigonometric functions and their graphs; identities; exponential and logarithmic functions and equations; radical equations; equations with rational exponents; dimension of a circle; velocity; sine and cosine graphs; complex numbers in polar and rectangular form; trigonometric equations; conic sections; and analysis of statistical data. Emphasis will be on the application of skills to technical problems. PREREQUISITE: 10804113 College Technical Mathematics 1A and 10804114 College Technical Mathematics 1B or 10804115 College Technical Mathematics 1.

10804123
Math with Business Applications - Credits: 3
This course integrates algebraic concepts, proportions, percents, simple interest, compound interest, annuities, and basic statistics with business/consumer scenarios. It also applies math concepts to the purchasing/buying and selling processes. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra.

10804133
Mathematics and Logic - Credits: 3
Students will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra.

10804134
Mathematical Reasoning - Credits: 3
This course provides an alternative pathway to earning credit for a college level liberal arts mathematics course. All college students, regardless of their college major, need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course is not designed for Science, Technology, Engineering, or Math (STEM) students and/or others who require calculus. This course may be used as the first of a two part sequence that ends with Quantitative Reasoning as the capstone general education math requirement. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra.

10804138
Math for Health Professionals - Credits: 2
Following an arithmetic review, this course emphasizes those mathematical skills necessary for success in the nursing field and related health occupations. Emphasis will be placed on computational skills and applications of rational numbers; problem solving with ratios, proportions, and percents; basic principles and application of algebra, graphing, and statistics; measurement skills in U.S. Customary and Metric systems as well as apothecary and household systems; and the use of calculators as a tool. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra.

10804189
Introductory Statistics - Credits: 3
Students taking Introductory Statistics display data with graphs, describe distributions with numbers, perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. Recommended Prerequisite: Introductory computer skills to include spreadsheets. PREREQUISITE: Established score on placement assessment or 10834109 Pre-Algebra or any associate degree or college parallel level WTCS mathematics course.

32804355
Math 355 - Credits: 3
This technical diploma course begins with a short review of basic arithmetic skills and continues with the application of these skills. Problem solving involving fractional and decimal dimensions is emphasized. The course also includes introductory algebra with emphasis on utilization of formulas including work with signed numbers. First degree equation solving is also emphasized. PREREQUISITE: Established score on placement assessment or COREQUISE: 76854750 Math Foundations for Trades.

32804364
Math 364 - Credits: 2
This technical diploma course is a continuation of Math 355. Topics covered include the basic geometry of plane and solid figures, right-triangle trigonometry, oblique-triangle trigonometry, and applications of these topics to trade and industry programs. PREREQUISITE: 32804355 Math 355.

32804365
Math 355 - Credits: 3
This technical diploma course is a continuation of Math 355. Topics covered include the basic geometry of plane and solid figures, right-triangle trigonometry, oblique-triangle trigonometry, and applications of these topics to trade and industry programs. All college students, regardless of their college major, need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. This course is not designed for Science, Technology, Engineering, or Math (STEM) students and/or others who require calculus. This course may be used as the first of a two part sequence that ends with Quantitative Reasoning as the capstone general education math requirement. These topics include applications to machine shop formulas, Cartesian coordinates, point-to-point programming, land-surveying mathematics, and framing-square calculations. PREREQUISITE: 32804365 Math 355.
General Studies Course Descriptions

32004373
Math 373 - Credits: 2
This course covers practical applications of whole numbers, fractions, decimals, percent, proportion, and formula evaluation. The course also includes measurement, U.S. and metric systems of measurement, and basic geometry. PREREQUISITE: Established score on placement assessment or COREQUISITE: 76854750 Math Foundations for Trades.

32004383
Math 333 - Credits: 2
This course is a continuation of Math 373. A more thorough coverage of solving equations and rearranging formulas with special applications to formulas used in the mechanical technician programs. Other topics include a study of solid geometry and direct and inverse proportions for work with hydraulics and transmission studies. The course is team-taught with the core instructor and direct application of math skills taught will be assessed in the math class and during time spent with the core instructor. PREREQUISITE: 32004373 Math 373.

10834109
Pre-Algebra - Credits: 3
Provides an introduction to algebra. Includes operations on real numbers, solving linear equations, percent and proportion, and an introduction to polynomials and statistics. Prepares students for elementary algebra and subsequent algebra-related courses. PREREQUISITE: Established score on placement assessment or COREQUISITE: 76854745 Math Foundations.

76854745
Math Foundations
Math Foundations is a course designed to improve a student’s math skills to support their success in Pre-Algebra. Students will be able to co-enroll in Pre-Algebra. Completing the course with a grade of C or higher should prepare a student to successfully complete their Pre-Algebra course. PREREQUISITE: Established score on placement assessment or Academic Support Math.

76854740
Math Foundations for Health
Math Foundations for Health is a course designed to improve a student’s math skills to prepare the student for success in health programs.

76854750
Math Foundations for Trades
Math Foundations for Trades is a course designed to improve a student’s math skills to support their success in Math 373 or Math 335. Students in Math Foundations for Trades will be able to co-enroll in Math 373 or Math 335. Completing the course with a grade of C or higher should prepare a student to successfully complete their Math 373 or Math 335 course. PREREQUISITE: Established score on placement assessment or Academic Support Math.

Science
10806112
Principles of Sustainability - Credits: 3
Prepares the student to develop sustainable literacy, analyze the interconnections among the physical and biological sciences and environmental systems, summarize the effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce the use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal and recycling in the U.S., and analyze approaches used by your community to promote and implement sustainability.

10806114
General Biology - Credits: 4
Introduces general biological concepts and principles. Emphasis is on cell structure and function, genetics, evolution, and taxonomic relationships. Consideration is also given to diversity among the various kingdoms.

10806122
Natural Sciences in Society - Credits: 3
Focuses on the history, philosophy, common concepts and current issues of natural science which has impacted the United States and global society. Explores processes required to analyze natural science issues. Learners correlate science issues to personal and professional experiences.

10806134
General Chemistry - Credits: 4
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: 10804113 College Technical Math 1A or other college-level algebra course.

10806140
Chemistry - Credits: 1
This is a combined lecture/laboratory course for those entering health occupations programs. You will study chemical bonds and the solution process; chemical reactions and chemical equilibria; and acids and bases. You will participate in labs where appropriate. No previous background in chemistry is required. Good math skills are helpful.

10806175
Pathophysiology - Credits: 3
This introductory course in pathophysiology covers topics related to alterations of homeostasis and the associated pathophysiological processes. Course studies include the processes involved that generate illness; signs and symptoms of commonly occurring illness states; and effects of disease processes on the cell. Review of normal homeostatic mechanisms is included. Study of these fundamental processes in relation to the pathophysiological processes can enable the students to apply this knowledge to clinical situations. PREREQUISITE: 10806179 Advanced Anatomy and Physiology and 10806197 Microbiology.

10806177
General Anatomy and Physiology - Credits: 4
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, neuromuscular, 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 and Physiology, preferably within the last five years.

10806197
Microbiology - Credits: 4
Examines microbial structure, metabolism, genetics, growth and the 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. This course includes a one-credit lab component that supports the course objectives. PREREQUISITE: 10806177 General Anatomy and Physiology, preferably within the last five years.

10806198
Human Biology - Credits: 4
This is an introductory course that emphasizes the structure of the human body and the functional interrelationships of the body’s systems. Consideration is given to the human body and disease, human genetics, human ecology, and the role that humans play in the environment. The course consists of three hours of lecture and two hours of lab per week. Note: this course does not meet requirements or substitute for Basic Anatomy and Physiology or Anatomy & Physiology 1 and II.
General Studies Course Descriptions

Social Science

10809122   Introduction to American Government - Credits: 3
This course introduces American political processes and institutions. 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. Explores the role of the media, interest groups, political parties, and public opinion in the political process. Also explores the role of state and national government in our federal system.

10809166   Introduction to Ethics: Theory and Application - Credits: 3
This course 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   Introduction to Diversity Studies - Credits: 3
This course introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored.

10809174   Social Problems - Credits: 3
Explores the causes of and possible solutions to selected social problems, such as inequality, crime and deviance, and poverty. Students will examine the interrelationship of social problems and their roots in fundamental societal institutions. PREREQUISITE: 10809196 Introduction to Sociology.

10809195   Economics - Credits: 3
This course is designed to give 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   Introduction to Sociology - Credits: 3
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.

Behavioral Science

10809159   Abnormal Psychology - Credits: 3
The course in Abnormal Psychology surveys the essential features, possible causes, and assessment and treatment of the various types 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 Introduction to Psychology.

10809188   Developmental Psychology - Credits: 3
Developmental Psychology is 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.

10809198   Introduction to Psychology - Credits: 3
This introductory course in psychology is a survey of the multiple 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.

32809371   Applied Human Relations - Credits: 2
A course designed to give students insight into how their own personality and abilities affect their own relationships with others at work, in the family, and in society. Areas stressed include presenting a professional image in seeking employment, developing a positive work attitude, and an awareness of personal adjustments needed to succeed on any new job.

10890120   Job Quest - Credits: 1
This course is designed to prepare students with work experience in community settings. Students plan and participate in activities that address community needs and develop their academic, program, and core ability skills. Students will log and journal experiences to reflect their learning and may develop a portfolio to document skill development.

32890300   Contemporary Workplace - Credits: 2
This course prepares you to enter the contemporary workplace with a variety of skills needed in today’s rapidly changing world of work. You will explore aspects of professionalism, management and leadership styles, the impact of diversity, and aspects of customer service. In addition, legal issues, health, safety, and security concerns, employee/employer relationships, employee compensation options, and effective interpersonal relationships will be examined. Interpersonal skill building will be a focus throughout with hands-on, practical experiences and exercises designed to reinforce learning.

32890305   Applied Information Resources - Credits: 2
This course will allow the learner to develop skills in research, evaluation, selection, and preparation of information resources useful to their career area. Learners will use various information resources, including computer software applications to develop sound information research strategies. Learners will be exposed to ethical use of information, information provided by various methods and stored in various management formats, communicating by e-mail, developing search and selection of information resources, analysis, and use of results. This discussion- and lab-based course will use individual and group work to search and share information resources. Competencies learned in this course will be able to be applied in other courses within your program and will continue to be valuable in lifelong learning. You should have experience in keyboarding and basic computer skills for this course.

10835103   Study Skills - Credits: 1
This course provides learners with strategies to develop study skills for success in college. Through hands-on experiences, learners will apply study skills, learn how to think critically, and use information resources and technology.

Interdisciplinary

10890100   Success Strategies 1 - Credits: 1
This course is designed to facilitate greater learner success affecting the academic, professional, and personal lives of students.

10890101   Success Strategies 2 - Credits: 1
This course is designed to facilitate greater learner success affecting the academic, professional, and personal lives of students. PREREQUISITE: 10890100 Success Strategies 1.

10890105   Job Quest - Credits: 1
This course is designed to enhance the student’s ability to seek, obtain, and retain employment. Assessment of personal characteristics, job-seeking and retention skills, preparation of employment-related documents, and interviewing strategies are included.

800.243.9482
witc.edu
2017-2018