

General Information

General Studies offers classes 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.

Basic Education offers individualized and group instruction in English, social studies, science, reading, math, 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.

Offered at:



**Ashland
New Richmond
Rice Lake
Superior**

Collegewide Outcomes

Collegewide Outcomes are universal in nature and are intended to develop personal awareness, career effectiveness, and professionalism. These outcomes are tied to program outcomes. Achievement of these outcomes builds a strong foundation for future mobility in your chosen field.

Students are expected to demonstrate knowledge, understanding, and skills in:

- Communication
- Critical Thinking
- Mathematics
- Science/Technology
- Social Interaction
- Local/Global Perspectives

General Studies Courses

Communication

- 10801171 Business English
- 10801195 Written Communication ♦
- 10801196 Oral/Interpersonal Communication
- 10801197 Technical Reporting ▲
- 10801198 Speech
- 10831103 Introduction to College Writing ▶*
- 32801361 Applied Communications 1
- 32801363 Applied Communications 2 ▲

♦ Appropriate placement score or Introduction to College Writing course required.

▶ Appropriate placement score or Basic Education course required.

* General College course. Credit does not apply to program graduation requirements.

Mathematics

- 10804106 Introduction to College Mathematics
- 10804113 College Technical Mathematics 1A
- 10804114 College Technical Mathematics 1B ▲
- 10804116 College Technical Mathematics 2 ▲
- 10804123 Math with Business Applications
- 10804189 Introductory Statistics
- 32804355 Math 355
- 32804364 Math 364 ▲
- 32804365 Math 365 ▲

- 32804372 Math 372
- 32804373 Math 373
- 32804383 Math 383 ▲

Science

- 10806114 General Biology
- 10806140 Chemistry
- 10806154 General Physics 1 (algebra-based) ▲
- 10806169 Energy in Nature, Technology, and Society
- 10806175 Pathophysiology ▲
- 10806177 General Anatomy and Physiology ▲
- 10806179 Advanced Anatomy and Physiology ▲
- 10806197 Microbiology ▲
- 31806310 Natural Sciences
- 31806352 Applied Physical Science
- 32806300 Applied Materials Science
- 32806351 Applied Science

Social Science

- 10809122 Introduction to American Government
- 10809144 Macroeconomics
- 10809166 Introduction to Ethics: Theory and Application
- 10809172 Race, Ethnic, and Diversity Studies
- 10809196 Introduction to Sociology

Behavioral Science

- 10809188 Developmental Psychology
- 10809198 Introduction to Psychology
- 10809199 Psychology of Human Relations
- 32809371 Applied Human Relations

Interdisciplinary

- 10890100 Success Strategies 1
- 10890101 Success Strategies 2 ▲
- 10890105 Job Quest
- 10890108 Information Resources
- 10890110 Information Resources
- 10890112 Information Resources
- 10890120 Service Learning
- 32890300 Contemporary Workplace
- 32890301 Contemporary Workplace
- 32890305 Applied Information Resources

▲ This course requires a prerequisite and/or corequisite, and must be completed with a grade of "C-" or better unless otherwise specified by program requirements.

Basic Education Courses

Various levels of coursework are offered in the following areas:

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

Prepared Learner Initiative for General Studies Coursework

The prepared learner initiative is a course-level placement strategy for General Studies courses adopted by the Wisconsin Technical System Colleges. Researched assessment score levels are utilized to place students in the level of coursework appropriate to their preparedness. Students may be placed in Basic Education, General College, or associate degree courses. The goal of this initiative is to prepare students for success.

Specific assessment score standards must be met before students may enroll in Written Communication. Program acceptance is still based on established program assessment scores. Program entry standards **may** be different than the placement score for General Studies courses. The effective date for this preparedness standard is **June 1, 2008**, for all **new** students. The first "general college" prepared learner course, Introduction to College Writing, will be offered fall term of 2008 at each campus.

Communication

10801171

Business English - Credits: 2

The student will develop proficiency in applying the conventions of English to language structure, usage, and style as used in employment situations.

10801195

Written Communication - Credits: 3

Develops writing skills which include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Also develops critical reading and thinking skills through the analysis of a variety of written documents. PREREQUISITE: Successful scores on placement test or 10831103 Introduction to College Writing.

10801196

Oral/Interpersonal Communication - Credits: 3

Focuses upon developing speaking, verbal and nonverbal communication, and listening skills through individual presentations, group activities, and other projects.

10801197

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: 10801195 Written Communication.

10801198

Speech - Credits: 3

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.

10831103

Introduction to College Writing - Credits: 3

Introduces basic principles of composition, including organization, development, unity, and coherence in paragraphs and multi-paragraph documents. PREREQUISITE: Successful scores on placement test or Basic Education coursework.

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 a cover letter, a resume, and a preliminary job portfolio.

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.

Mathematics

10804106

Introduction to College Mathematics - Credits: 3

This 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.

10804113

College Technical Mathematics 1A - Credits: 3

Topics include: solving linear, quadratic, and rational equations; graphing; formula rearrangement; solving systems of equations; percent; proportions and operations of 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.

10804114

College Technical Mathematics 1B - Credits: 2

This course is a continuation of College Technical Mathematics 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 or 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. COREQUISITE: 10804113 College Technical Mathematics 1A.

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. PREREQUISITES: 10804113 College Technical Mathematics 1A and 10804114 College Technical Mathematics 1B.

10804123

Math with Business Applications - Credits: 3

This course 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.

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. PREREQUISITES: Two years of high school Algebra in last four calendar years or placement test score into Intermediate Algebra, or 10804106 Introduction to College Math, or one semester of postsecondary Algebra.

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 solution is also

emphasized.

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 365 - 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 technical programs. Additional topics covered in this course are program specific. These topics include applications to machine shop formulas, Cartesian coordinates, point-to-point programming, land-surveying mathematics, and framing-square calculations. PREREQUISITE: 32804355 Math 355.

32804372

Math 372 - Credits: 1

This course covers arithmetic operations with whole numbers, fractions, and decimals. The course also covers proportions and systems of measurement.

32804373

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.

32804383

Math 383 - 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: 32804373 Math 373.