



THE UNIVERSITY OF AKRON UNDERGRADUATE DEGREES



The University of Akron
Wayne College

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The University of Akron
Wayne College

Office of Admissions

1901 Smucker Road • Orrville, Ohio 44667
330-683-2010 • wayne.uakron.edu

Disclaimer: While UA Wayne College seeks to present clearly its mission, programs, policies and procedures herein, it should be understood that such are subject to change. Consequently, students should check with the College for up-to-date information. Students are responsible for keeping informed of their personal academic progress.

The University of Akron is an Equal Education and Employment Institution — uakron.edu/eo

Operating under nondiscrimination provisions of Titles VI, VII of the Civil Rights Act of 1964 as amended, and IX of the Educational Amendments of 1972 as amended, Executive Order 11246, Vocational Rehabilitation Act Section 504, and Vietnam Era Veterans' Readjustment Act, and Americans with Disabilities Act of 1990 as related to admissions, treatment of students, and employment practices.

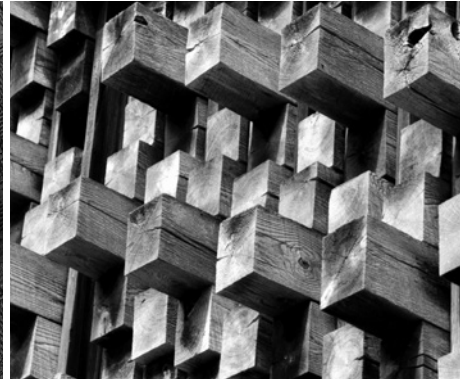
It is the policy of this institution that there shall be no discrimination against any individual at The University of Akron because of age, color, creed, handicap, national origin, race, religion, sex, or sexual orientation. The University of Akron will not tolerate sexual harassment of any form in its programs and activities. This nondiscrimination policy applies to all students, faculty, staff, employees, and applicants. Complaint of possible discrimination should be referred to Equal Employment Opportunity Director — Polsky Building, Room 326 • Phone: 330-972-7300 • Fax: 330-972-5538. Information on Title IX (sex discrimination) may be obtained from Equal Employment Opportunity Director — Polsky Building, Room 326 • Phone: 330-972-7300 • Fax: 330-972-5538

Get Your Questions Answered

TOPIC	WHO TO CONTACT	PHONE
Admission	Office of Admissions	330-684-8900
Advising	Student Services	330-684-8900
Athletics	Athletic Director	330-684-8906
Auditing	Student Services	330-684-8900
Billing (Student Accounts)	Student Accounts	330-684-8933
Books (Buying)	Barnes and Noble Bookstore	330-684-8920
By-passed Credit	Student Services	330-684-8900
Cancellations, Course/Class	Student Services	330-684-8900
Career Services	Student Services	330-684-8900
Clubs and Organizations, Students	Student Activities Coordinator	330-684-8973
Counseling Services	Student Services	330-684-8900
Wayne College Scholars	Dr. Amber Ferris	330-972-8710
Facilities	Business Office	330-684-8932
Fees	Student Accounts	330-684-8933
Financial Aid	Financial Aid	330-684-8942
Guest Students	Student Services	330-684-8901
Health and Safety	Campus Police	330-684-8910
ID Card (ZipCard)	Student Services	330-684-8900
Learning Support Services	Smucker Learning Center	330-684-8960
Library	Library Information Desk	330-684-8789
Office of Accessibility	Student Services	330-684-8923
Technical Support Services	Technical Support Help Desk	330-684-8953
UA Millersburg		330-674-2514
UA Lakewood		216-221-1141
UA Medina		330-721-2210
UA Solutions		330-972-7577
Veteran Services	Student Services	330-684-8900

Online Resources

- ▶ **Admissions**
Apply for undergraduate admissions at wayne.uakron.edu/admissions
- ▶ **Curriculum**
Access full curriculum guides at wayne.uakron.edu/academics-majors
- ▶ **Financial Aid**
Apply for financial aid at fafsa.ed.gov
- ▶ **Schedule**
View the most current class schedule at wayne.uakron.edu/courses
- ▶ **Wayne College Scholarships**
Apply for The University of Akron Wayne College scholarships at wayne.uakron.edu/scholarships



ACADEMIC PROGRAMS

THE UNIVERSITY OF AKRON

The University of Akron Wayne College offers the first two years of general bachelor's degree courses for students who plan to continue at the Akron campus. Our general education transfer program also leads to the Associate of Arts and the Associate of Science. Select bachelor's degrees can now be completed entirely on the Wayne College campus.

ARTS AND SCIENCES

uakron.edu/bcas

ARTS

Art programs**

- Art Education
- Ceramics
- Graphic Design
- Jewelry and Metalsmithing
- Painting and Drawing
- Photography
- Printmaking
- Sculpture
- Studio Art

Dance**

- Dance with Business Cognate

Music**

- Composition
- Jazz Studies
- Music Education options
 - Band
 - Choral
 - Orchestra
- Performance options
 - Accompanying/Collaborative Piano
 - Brass
 - Guitar
 - Percussion
 - Piano
 - String
 - Voice
 - Woodwind

Theatre Arts**

- Applied Theatre and Business Entrepreneurship
- Applied Theatre and Social Entrepreneurship
- Film Studies
- Physical Theatre

HUMANITIES

English

History

Humanities (Divisional)

Philosophy

Spanish

MULTIDISCIPLINARY STUDIES

NATURAL AND MATHEMATICAL SCIENCES

Biology

Biomedical Science

Chemistry

- Biochemistry
- Chemistry-Polymer option

Computer Science programs

- Management
- System

Geosciences programs

- Earth Science
- Environmental Science
- Geology

Mathematics

- Applied Mathematics

Natural Sciences

Statistics

- Actuarial Science
- Data Science

SOCIAL AND BEHAVIORAL SCIENCES

Anthropology

Child and Family

Development programs

- Child Development
- Family Development

Communication programs

- Media Studies
- Public Relations
- Strategic and Organizational Communication

Criminal Justice Studies programs

- Criminal Justice (associate degree)

- Criminology and Criminal Justice
- Criminal Intelligence Analysis

Political Science

- Political Science/J.D. Accelerated (3+3 Law Degree Program)
- Political Science – National Security Track

Psychology

Social Sciences (Divisional)

- Philosophy, Political Science and Economics (PPE)
- Philosophy, Sociology and Psychology (PSP)

Sociology

BUSINESS

uakron.edu/cba

Accounting

- Accelerated Accounting B.S.A/M.S.A
- Accelerated Accounting B.S.A/MTax

Business Administration

Economics

Finance programs

- Financial Management
- Financial Planning
- Risk Management and Insurance

Management programs

- Human Resources
- Information Systems
- Supply Chain/Operations

Marketing programs

- Integrated Marketing Communications
- Marketing Management
- Sales Management

For more information on Wayne College's majors and areas of study, visit wayne.uakron.edu/academics-majors.

UNDERGRADUATE MAJORS

At Wayne College, you'll forever be a Zip as you gain real-world problem-solving skills that ensure academic achievement, and enhance your personal and professional success. We are proud to foster and create individualized experiences for you.

EDUCATION

uakron.edu/education

Licensure Programs

- Early Childhood Inclusive Teacher Preparation*
- Intervention Specialist
- Middle Level Education
- Multi-Age (PK-12)
- Secondary Education (Adolescent to Young Adult)

ENGINEERING

uakron.edu/engineering

Aerospace Systems Engineering

Biomedical Engineering programs

- Biomaterials and Tissues
- Biomechanics
- Instrumentation, Signals and Imaging

Chemical Engineering

- Biotechnology Specialization
- Polymer Specialization

Civil Engineering

Computer Engineering

Corrosion Engineering

Electrical Engineering

Mechanical Engineering

- Motion and Control Specialization
- Polymer Specialization

HEALTH PROFESSIONS

uakron.edu/health

Dietetics and Nutrition

Food and Environmental Nutrition

Nursing

- L.P.N. to B.S.N.
- R.N. to B.S.N.

- Second-Degree B.S.N. (Accelerated B.S.N.)

Respiratory Therapy

Social Work*

Speech-Language Pathology and Audiology**

Sport Science and Wellness Education programs

- Exercise Science options
 - Fitness Management
 - Physiological Sciences
 - Pre-Physical Therapy
 - Sport Coaching/Strength and Conditioning
- Sport Studies options
 - Coaching Education
 - Sport Management

APPLIED SCIENCE AND TECHNOLOGY

uakron.edu/cast

BACCALAUREATE DEGREES

Computer Information Systems programs

- Cybersecurity
- Digital Forensics Technology
- Networking
- Programming
- Specialized IT Applications

Emergency Management and Homeland Security

Engineering and Science Technologies programs

- Automated Manufacturing Engineering Technology
- Construction Engineering Technology
- Electronic Engineering Technology

- Mechanical Engineering Technology
- Surveying and Mapping

Organizational Supervision*

ASSOCIATE DEGREES

Associate of Arts*

- Communication Track

Associate of Science*

Associate of Technical Studies*

Computer Information Systems programs

- Cisco Networking
- Programming

Disaster Science and Emergency Services programs

- Emergency Medical Services Technology options
 - EMT/Paramedic
 - Fire/Medic
- Fire Protection Technology

Engineering and Science Technologies programs

- Advanced Manufacturing Engineering Technology
- Construction Engineering Technology
- Construction Field Operations
- Corrosion Engineering Technology
- Electronic Engineering Technology
- Land Surveying
- Mechanical Engineering Technology

CERTIFICATE PROGRAMS

Workplace Communication*

* Program can be completed entirely on the Wayne College campus.

** Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

Contact our Office of Admissions at **1-800-221-8308 ext. 8900** or visit **wayne.uakron.edu/admissions**.

Baccalaureate Degrees

The following outlines represent the first two years of study for individual bachelor's degree programs of The University of Akron. Some courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements. These programs are marked with an asterisk (*). Finally, completion of the courses listed may also qualify a student to receive either the Associate of Arts or the Associate of Science degree. Please consult a UA Wayne College advisor for further details.

• 2420: Bachelor of Organizational Supervision (BOS)

Courses at Wayne College

		Credits
2420:300	Supervision in a Technical Environment	3
2420:301	Information Design	3
2420:302	Ethical and Law in Business	3
2420:310	Leadership Principles and Practices in Technical Org.	3
2420:311	Corporate Social Responsibility and Leadership	3
2420:401	Leading Project Teams	3
2420:402	Operational Assessments and Improvements	3
2420:420	Human Capital Development	3
2420:421	Senior Seminar in Organizational Supervision	3
3750:380	Industrial/Organizational Psychology	4
7600:325	Intercultural Communication OR	3
7600:344	Small Group Communication	3
		34

Technical Associate Degree Credits (minimum) 60

Total Gen. Ed. Credits Required* As needed to meet Degree Requirements

Total Credits Required for Degree (minimum) 120

• 2440: Computer Information Systems Programs

– Digital Forensics Technology

		Credits
First Year		
2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2420:104	Intro to Business in the Global Environment	3
2440:145	Intro to Unix/Linux	3
3300:111	English Composition I	3
3800:100	Intro to Criminal Justice	3
3800:102	Principles of Criminal Law	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	6
		31
Second Year		
2040:256	Diversity in American Society	3
3800:104	Evidence and Criminal Legal Processes	3
	Humanities Requirement	9
	Natural Science Requirement	7
	Electives	7
		29

– Networking

		Credits
First Year		
2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Intro to Business in the Global Environment	3
2440:121	Intro to Logic/Programming	3
2440:145	Intro to Unix/Linux	3
3300:111	English Composition I	3
		28
Second Year		
2040:256	Diversity in American Society	3
2420:202	Elements of Human Resources Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II OR	3
2420:243	Survey in Finance	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication	3
	Humanities Requirement	9
	Natural Science Requirement	7
		31

– Programming

First Year

2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Intro to Business in the Global Environment	3
2440:121	Intro to Logic/Programming	3
2440:140	Internet Tools	3
2440:145	Intro to Unix/Linux	3
2440:170	Visual BASIC	3
3300:111	English Composition I	3
		31

Second Year

2040:240	Human Relations	3
2040:256	Diversity in American Society	3
2420:202	Elements of Human Resources Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II OR	3
2420:243	Survey in Finance	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	9
	Natural Science Requirement	7
		34

– Cybersecurity*

First Year

2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2440:121	Intro to Logic/Programming	3
2440:140	Internet Tools	3
2440:145	Intro to Unix/Linux	3
2440:170	Visual BASIC	3
3300:111	English Composition I	3
		28

Second Year

2040:256	Diversity in American Society	3
3600:120	Intro to Ethics	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	6
	Natural Science Requirement	7
	Electives	8
		30

– Specialized IT Applications

First Year

2030:152	Technical Math II AND	2
2030:153	Technical Math III	2
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Intro to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2440:140	Internet Tools	3
2440:145	Intro to Unix/Linux	3
3300:111	English Composition I	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communications OR	3
2420: 263	Professional Communications and Presentations	3
	Diversity Requirement	2
	Natural Science Requirement	3
		36

Second Year

2440:121	Intro to Logic/Programming	3
2440:141	Web Site Administration	3
2440:160	Java Programming	3
2440:180	Database Concepts	3
2440:211	Interactive Web Programming	3
2440:212	Multimedia and Interactive Web Elements	3
2440:240	CIS Internship	3
2440:241	Systems Analysis and Design	3
		24

• 2790: Respiratory Therapy

		Credits
First Year		
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2740:120	Medical Terminology	3
3150:110	Intro to General, Organic and Biochemistry I	3
3150:111	Intro to General, Organic and Biochemistry I Lab	1
3150:112	Intro to General, Organic and Biochemistry II	3
3150:113	Intro to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	3
3300:112	English Composition II	3
3750:100	Intro to Psychology	3
7600:106	Effective Oral Communication	3
		27
Second Year		
2420:300	Supervision in a Technical Environment	3
3100:130	Principles of Microbiology	3
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
3600:120	Intro to Ethics	3
3850:100	Intro to Sociology	3
	Arts and Humanities Requirement	7
	Electives	3
		30

• 3100: Biology**• 3900: Biomedical Science**

		Credits
First Year		
3100:111	Principles of Biology I	4
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
	Social Science Requirement	3
		30
Second Year		
3100:211	General Genetics	3
3100:311	Cell and Molecular Biology	3
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Lab I	2
3150:266	Organic Chemistry Lab II	2
	Arts and Humanities Requirement	9
	Social Science Requirement	3
	Electives	2
		30

• 3150: Chemistry

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
3450:221	Analytic Geometry-Calculus I	4
7600:106	Effective Oral Communication	3
	Social Science Requirement	6
		32
Second Year		
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Lab I	2
3150:266	Organic Chemistry Lab II	2
3450:222	Analytic Geometry-Calculus II	4
3450:223	Analytic Geometry-Calculus III	4
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Arts and Humanities Requirement	9
		35

– Biochemistry and Chemistry Polymer Option

		Credits
First Year		
3100:111	Principles of Biology I	4
3100:112	Principles of Biology II	4
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
3450:221	Analytic Geometry-Calculus I	4
7600:106	Effective Oral Communication	3
		34
Second Year		
3100:211	General Genetics	3
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Lab I	2
3150:266	Organic Chemistry Lab II	2
3450:222	Analytic Geometry-Calculus II	4
3650:261	Physics For Life Sciences I	4
3650:262	Physics For Life Sciences II	4
	Social Science Requirement	6
		31

• 3230: Anthropology*

		Credits
First Year		
3230:150	Human Cultures	3
3300:111	English Composition I	3
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Quantitative Reasoning Requirement	3
	Social Science Requirement	3
	Natural Science Requirement	4
	Beginning Foreign Language	8
		30
Second Year		
3230:151	Human Evolution	4
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Concentration Electives	11
		30

• 3250: Economics*

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:145	Algebra for Calculus	4
3450:210	Calculus with Business Applications	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Natural Science Requirement	7
		31
Second Year		
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Social Science Requirement	3
	Electives	5
		29

• 3300: English*

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Quantitative Reasoning Requirement	3
	Social Science Requirement	6
	Electives	4
		30
Second Year		
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Natural Science Requirement	7
	Electives	8
		30

* Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

• **3370: Geoscience**

— **Geology***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
		32
Second Year		
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Social Science Requirement	6
		36

— **Earth Science***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
	Social Science Requirement	6
	Beginning Foreign Language	8
		31
Second Year		
3450:221	Analytic Geometry-Calculus I	4
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	9
	Mathematics/Science Elective	4
	Intermediate Foreign Language	6
	Electives	3
		29

— **Environmental Science***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
	Social Science Requirement	6
	Beginning Foreign Language	8
	Electives	2
		30
Second Year		
3100:111	Principles of Biology I	4
3100:112	Principles of Biology II	4
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Electives	4
		30

• **3400: History**

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3400:250	U.S. History to 1877	4
3400:251	U.S. History since 1877	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Quantitative Reasoning Requirement	3
	Social Science Requirement	3
		31
Second Year		
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Natural Science Requirement	7
	Electives	7
		29

• **3450: Mathematics**

• **3470: Statistics***

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
7600:106	Effective Oral Communication	3
	Social Science Requirement	6
	Beginning Foreign Language	8
		31
Second Year		
3450:223	Analytic Geometry-Calculus III	4
3450:312	Linear Algebra	3
3450:335	Intro to Ordinary Differential Equations	3
	Arts and Humanities Requirement	9
	Natural Science Requirement	7
	Intermediate Foreign Language	6
		32

• **3460: Computer Science Programs**

— **Management and System Track***

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:208	Intro to Discrete Mathematics	4
3450:221	Analytic Geometry-Calculus I	4
	Beginning Foreign Language	8
	Natural Science Requirement	7
		29
Second Year		
3450:222	Analytic Geometry-Calculus II	4
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Social Science Requirement	6
	Electives	3
		31

• **3600: Philosophy***

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3600:101	Intro to Philosophy	3
3600:120	Intro to Ethics	3
7600:106	Effective Oral Communication	3
	Quantitative Reasoning Requirement	3
	Social Science Requirement	6
	Beginning Foreign Language	8
		32
Second Year		
3600:170	Intro to Logic	3
	Arts and Humanities Requirement	9
	Natural Science Requirement	7
	Intermediate Foreign Language	6
	Electives	3
		28

• **3700: Political Science**

— **National Security Track**

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Quantitative Reasoning Requirement	3
	Social Science Requirement	3
	Electives	4
		30
Second Year		
3700:150	World Politics and Government	3
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Natural Science Requirement	7
	Electives	5
		30

* Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

**– Political Science/J.D. Accelerated
(3+3 Law Degree Program)***

		Credits
First Year		
2220:100	Intro to Criminal Justice	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	3
7600:106	Effective Oral Communication	3
	Quantitative Reasoning Requirement	3
	Social Science Requirement	3
	Electives	9
		30
Second Year		
	Arts and Humanities Requirement	9
	Natural Science Requirement	7
	Electives	14
		30

• 3750: Psychology*

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3750:100	Intro to Psychology	3
3850:100	Intro to Sociology	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Quantitative Reasoning Requirement	3
	Electives	4
		30
Second Year		
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Natural Science Requirement	7
	Electives	8
		30

• 3800: Criminal Justice Studies

– Criminology and Criminal Justice Option

		Credits
First Year		
3300:111	English Composition I	3
3300:112	Intro to General, Organic and Biochemistry I Lab	3
3700:100	Government and Politics in the U.S.	3
3800:100	Intro to Criminal Justice	3
3800:102	Principles of Criminal Law	3
3800:103	Intro to Corrections	3
3850:100	Intro to Sociology	3
7600:106	Effective Oral Communication	3
	Quantitative Reasoning Requirement	3
	Electives	3
		30
Second Year		
3800:105	Introduction to Police Studies	3
3850:330	Criminology	3
	Arts and Humanities Requirement	9
	Natural Science Requirement	7
	Electives	8
		30

– Criminal Intelligence Analysis Option

		Credits
First Year		
2440:105	Intro to Computers and Application Software	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	3
3800:100	Intro to Criminal Justice	3
3850:100	Intro to Sociology	3
7600:106	Effective Oral Communication	3
	Quantitative Reasoning Requirement	3
	Electives	6
		30
Second Year		
3800:105	Introduction to Police Studies	3
3850:330	Criminology	3
	Arts and Humanities Requirement	9
	Natural Science Requirement	7
	Electives	8
		30

• 3850: Sociology*

		Credits
First Year		
3300:111	English Composition I	3
3300:112	English Composition II	3
3850:100	Intro to Sociology	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Quantitative Reasoning Requirement	3
	Social Science Requirement	3
	Electives	4
		30
Second Year		
	Arts and Humanities Requirement	9
	Intermediate Foreign Language	6
	Natural Science Requirement	7
	Electives	8
		30

• 4200: Chemical Engineering*

– Biotechnology Specialization and Polymer Specialization

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		32
Second Year		
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Lab I	2
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
	Arts and Humanities Requirement	3
		32

• 4250: Corrosion Engineering*

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		32
Second Year		
3150:263	Organic Chemistry I Lecture	3
3150:264	Organic Chemistry II Lecture	3
3150:265	Organic Chemistry I Lab	2
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4300:202	Intro: Mechanics of Solids	3
	Arts and Humanities Requirement	3
		35

* Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

• **4300: Civil Engineering***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		30
Second Year		
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4300:202	Intro to Mechanics of Solids	3
4600:203	Dynamics	3
	Arts and Humanities Requirement	6
		33

• **4400: Electrical Engineering***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		30
Second Year		
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4300:202	Intro to the Mechanics of Solids OR	3
4600:203	Dynamics	3
	Arts and Humanities Requirement	9
		36

• **4450: Computer Engineering***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3250:244	Intro to Economic Analysis	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		30
Second Year		
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3460:209	Computer Science I	4
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Arts and Humanities Requirement	9
	Electives	3
		31

• **4600: Mechanical Engineering***

— **Motion and Control Specialization and Polymer Specialization**

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		30
Second Year		
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4300:202	Intro: Mechanics of Solids	3
4600:203	Dynamics	3
	Arts and Humanities Requirement	6
		33

• **4800: Biomedical Engineering***

— **Biomechanics Track***

— **Instrumentation, Signal and Imaging Track***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
3600:120	Intro to Ethics	3
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		33
Second Year		
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4600:203	Dynamics	3
		32

— **Biomaterials and Tissues Engineering Track***

		Credits
First Year		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry - Calculus I	4
3450:222	Analytic Geometry - Calculus II	4
3600:120	Intro to Ethics	3
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		33
Second Year		
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
3150:263	Organic Chemistry I Lecture	3
3150:265	Organic Chemistry I Lab	2
3250:244	Intro to Economic Analysis	3
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3

3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4600:203	Dynamics	3
		34

• 4900: Aerospace Systems Engineering

First Year		Credits
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3250:244	Intro to Economic Analysis	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Social Science Requirement	3
		30
Second Year		
3450:223	Analytic Geometry-Calculus III	4
3450:335	Intro to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
4300:202	Intro: Mechanics of Solids	3
4600:203	Dynamics	3
6200:201	Accounting Principles I	3
	Arts and Humanities Requirement	6
		33

• 5200: Teacher Licensure Programs*

— Early Childhood Inclusive Teacher Preparation and Intervention Specialist Option

(Age three through grade three inclusive)

First Year		Credits
3100:103	Natural Science-Biology	4
3300:111	English Composition I	3
3300:112	English Composition II	3
3350:100	Intro to Geography	3
3400:250/251	U.S. History to 1877/Since 1877 OR	4
3700:100	Government and Politics in the U.S.	3
3760:265	Child Development	3
5550:211	First Aid and CPR	2
7600:106	Effective Oral Communication	3
	Quantitative Requirement	3
	Natural Science Requirement	3
		30-31
Second Year		
5100:200	Intro to Education	3
5100:220	Educational Psychology	3
5200:215	The Child, the Family and the School	3
5500:240	Foundations of Literacy	3
5500:241	World Study, Phonics and Spelling	3
5500:286	Teaching Multiple Texts	3
5500:308	Instructional Planning/Assessment	6
5610:225	Intro to Exceptionalities	3
5610:450	Special Education Programs in Early Childhood	3
5610:439	Collaboration with Families and Professionals in Early Childhood Setting	3
5610:467	Management Strategies in Special Education	3
		36

— Middle Level Education

(grades 4 - 9 inclusive)

First Year		Credits
3100:103	Natural Science-Biology	4
3300:111	English Composition I	3
3300:112	English Composition II	3
3350:100	Intro to Geography	3
3400:250/251	U.S. History to 1877/since 1877 OR	4
3700:100	Government and Politics in the U.S.	3
3470:260	Basic Statistics	3
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	3
	Natural Science Requirement	3
		28-29
Second Year		
5100:200	Intro to Education	3
5100:220	Educational Psychology	3
5500:240	Foundations of Literacy	3
5500:241	World Study, Phonics and Spelling	3
5500:286	Teaching Multiple Texts	3
5610:225	Intro to Exceptionalities	3

Areas of Concentration	11
Arts and Humanities Requirement	6
	35

— Multi-Age (PK-12)

(grades 4 - 9 inclusive)

First Year		Credits
3100:103	Natural Science-Biology	4
3300:111	English Composition I	3
3300:112	English Composition II	3
3350:100	Intro to Geography	3
3400:250/251	U.S. History to 1877/since 1877 OR	4
3700:100	Government and Politics in the U.S.	3
3470:260	Basic Statistics	3
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement	3
	Natural Science Requirement	3
		28-29
Second Year		
5100:200	Intro to Education	3
5100:220	Educational Psychology	3
5500:240	Foundations of Literacy	3
5500:241	World Study, Phonics and Spelling	3
5500:286	Teaching Multiple Texts	3
5610:225	Intro to Exceptionalities	3
	Areas of Concentration	11
	Arts and Humanities Requirement	6
		32

— Secondary Education Adolescent to Young Adult

(middle, junior and senior high school)

First Year		Credits
3300:111	English Composition I	3
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Quantitative Requirement	3
	Natural Science Requirement	7
	Social Science Requirement	6
	Teaching Field(s) Course	5
	Electives	5
		30
Second Year		
5100:200	Intro to Education	3
5100:220	Educational Psychology	3
5610:225	Intro to Exceptionalities	3
	Arts and Humanities Requirement	9
	Teaching Field(s) Courses	6
	Electives	6
		30

• 5550: Sports Science and Wellness Education Programs

— Exercise Science options, including: Physiological Sciences, Sport Coaching/Strength and Conditioning, Pre-Physical Therapy and Fitness Management

First Year		Credits
2740:120	Medical Terminology	3
3300:111	English Composition I	3
3300:112	English Composition II	3
3750:100	Intro to Psychology	3
3850:100	Intro to Sociology	3
5550:150	Concepts of Health and Fitness	3
5550:212	First Aid and CPR for the Professional Rescuer	2
7760:133	Nutrition Fundamentals	3
7600:106	Effective Oral Communication	3
	Quantitative Reasoning Requirement	3
		29
Second Year		
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
5550:201	Kinesiology	3
5550:220	Health Promotion and Behavior Change	3
5550:330	Exercise and Weight Control	3
5550:355	Exercise in Special Populations	3
	Arts and Humanities Requirement	9
	Electives	2
		31

– Sport Studies Option, including: Coaching Education and Sport Management

	Credits
First Year	
3300:111 English Composition I	3
3300:112 English Composition II	3
3750:100 Intro to Psychology	3
3850:100 Intro to Sociology	3
5500:100 Intro to Sports Studies	3
5550:150 Concepts of Health and Fitness	3
5550:212 First Aid and CPR for the Professional Rescuer	2
5570:101 Personal Health	2
7760:133 Nutrition Fundamentals	3
7600:106 Effective Oral Communication	3
Quantitative Reasoning Requirement	3
	31
Second Year	
3100:200 Human Anatomy and Physiology I	3
3100:201 Human Anatomy and Physiology I Lab	1
3100:202 Human Anatomy and Physiology II	3
3100:203 Human Anatomy and Physiology II Lab	1
5550:160 Intro to Coaching	3
5570:202 Stress, Lifestyle and Your Health	3
Arts and Humanities Requirement	9
Electives	8
	31

• 6000: Business Administration

– Accounting, Finance, Management and Marketing

	Credits
First Year	
3250:200 Principles of Microeconomics	3
3250:201 Principles of Macroeconomics	3
3300:111 English Composition I	3
3300:112 English Composition II	3
3450:145 Algebra for Calculus	4
3450:210 Calculus with Business Applications	3
3230:150 Human Cultures OR	3
3750:100 Intro to Psychology OR	3
3850:100 Intro to Sociology	3
7600:106 Effective Oral Communication	3
Natural Science Requirement	7
	32
Second Year	
6200:201 Accounting Principles I	3
6200:202 Accounting Principles II	3
6200:250 Spreadsheet Modeling and Decision Analysis	3
6400:220 Legal and Social Environment of Business (except Accounting majors)	3
6500:304 Business Statistics	3
6500:305 International Business	3
6600:205 Marketing Principles	3
Arts and Humanities Requirement	9
	30

• 7400: Child and Family Development programs

– Child Development*

	Credits
First Year	
3300:111 English Composition I	3
3300:112 English Composition II	3
3750:100 Intro to Psychology	3
3760:265 Child Development	3
3850:100 Intro to Sociology	3
7600:106 Effective Oral Communication	3
7760:133 Nutrition Fundamentals	3
Quantitative Reasoning Requirement	3
Electives	6
	30
Second Year	
3750:230 Developmental Psychology	4
3760:270 Theory and Guidance of Play	3
3760:280 Early Childhood Curriculum Methods	3
Arts and Humanities Requirement	9
Natural Science Requirement	7
Electives	4
	30

– Family Development*

	Credits
First Year	
3300:111 English Composition I	3
3300:112 English Composition II	3
3750:100 Intro to Psychology	3
3760:265 Child Development	3
3850:100 Intro to Sociology	3
7600:106 Effective Oral Communication	3
7760:133 Nutrition Fundamentals	3
Quantitative Reasoning Requirement	3
Foreign Language/Language Alternative Courses	8
	32
Second Year	
3750:230 Developmental Psychology	4
Arts and Humanities Requirement	9
Natural Science Requirement	7
Foreign Language/Language Alternative Courses	6
Electives	3
	29

• 7600: Communication*

– Media Studies, Public Relations, Strategic and Organizational Communication

	Credits
First Year	
3300:111 English Composition I	3
3300:112 English Composition II	3
7600:101 Intro to Communication	3
7600:106 Effective Oral Communication	3
7600:245 Argumentation	3
Quantitative Reasoning Requirement	3
Natural Science Requirement	7
Elective (Typing/Word Processing Recommended)	5
	30
Second Year	
Communication Major Emphasis Courses	12
Foreign Language Courses OR	4
Language Alternative Courses	4
Arts and Humanities Requirement	9
Social Science Requirement	6
	31

• 7750: Social Work*

	Credits
First Year	
3300:111 English Composition I	3
3300:112 English Composition II	3
3470:250 Statistics for Everyday Life	4
3700:100 Government and Politics in the United States	3
3750:100 Intro to Psychology	3
3850:100 Intro to Sociology	3
7750:270 Diversity and Social Work	3
7750:275 Intro to Social Work Practice	3
7750:276 Intro to Social Welfare	3
Economics Requirement	3
	31
Second Year	
3100:103 Natural Science-Biology	4
7600:106 Effective Oral Communication	3
7750 Social Work Requirements	4
7750:427 Human Behavior and Social Environment I	3
Arts and Humanities Requirement	9
Natural Science Requirement	3
Social Science Elective	3
	29

• **7760: Dietetics and Nutrition***

		Credits
First Year		
3150:110	Intro to General, Organic and Biochemistry I	3
3150:111	Intro to General, Organic and Biochemistry I Lab	1
3150:112	Intro to General, Organic and Biochemistry II	3
3150:113	Intro to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	3
3300:112	English Composition II	3
3470:250	Statistics for Everyday Life	4
3750:100	Intro to Psychology	3
3760:265	Child Development	3
3850:100	Intro to Sociology	3
7600:106	Effective Oral Communication	3
		30
Second Year		
3100:130	Principles of Microbiology	3
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
6200:201	Accounting Principles I	3
	Arts and Humanities Requirement	9
	Electives	7
		30

• **7770: Food and Environmental Nutrition***

		Credits
First Year		
3150:110	Intro to General, Organic and Biochemistry I	3
3150:111	Intro to General, Organic and Biochemistry I Lab	1
3150:112	Intro to General, Organic and Biochemistry II	3
3150:113	Intro to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	3
3300:112	English Composition II	3
3470:250	Statistics for Everyday Life	4
3750:100	Intro to Psychology	3
3850:100	Intro to Sociology	3
7600:106	Effective Oral Communication	3
7760:133	Nutrition Fundamentals	3
	Economics Requirement	3
		33
Second Year		
3100:130	Principles of Microbiology	3
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
6200:201	Accounting Principles I	3
6300:201	Intro to Entrepreneurship	3
6600:205	Marketing Principles	3
	Arts and Humanities Requirement	9
		29

* Certain courses not currently available at Wayne College may also need to be completed in the first two years of selected University programs to assure proper course sequencing and timely completion of degree requirements.

• **8200: Nursing (Basic Program)***

		Credits
First Year		
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Lab	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Lab	1
3150:110	Intro to General, Organic and Biochemistry I	3
3150:111	Intro to General, Organic and Biochemistry I Lab	1
3150:112	Intro to General, Organic and Biochemistry II	3
3150:113	Intro to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	3
3300:112	English Composition II	3
3470:250	Statistics for Everyday Life OR	4
3470:260	Basic Statistics	3
3750:100	Intro to Psychology	3
7600:106	Effective Oral Communication	3
8200:100	Intro to Nursing	1
		33
Second Year		
3100:130	Principles of Microbiology	3
3600:120	Intro to Ethics	3
3750:230	Developmental Psychology	4
3850:100	Intro to Sociology OR	3
3230:150	Human Cultures	3
7400:316	Science of Nutrition	4
	Arts and Humanities Requirement	3
		20

* Students are eligible to apply to the College of Nursing during spring semester of the first year if they complete all of the courses listed for the first year by the end of the semester and attain a grade point average of 2.50 or higher ("C" grade or higher in each course). If the student is accepted into the college, attendance at the Akron campus is necessary during the second year in required clinical nursing courses. The following list of courses may be taken at Wayne College during the second year by students who do not satisfy the admission requirements.

Associate Degrees

The following associate degree programs are available at Wayne College. The structure of these programs may differ significantly from similar programs within the College of Applied Science and Technology of The University of Akron. All required courses for these programs are available at the college. A diploma issued as a result of the completion of one of these programs carries The University of Akron Wayne College designation. In some instances, specific course sequencing is necessary, especially to the student attending full time, to accommodate completion of the program in two years. Please consult an advisor at Wayne College for further details.

Associate of Technical Studies

The Associate of Technical Studies program provides an integrated program of study for those students whose educational objectives and interests cannot be met through the College's formal associate degree programs. The Associate of Technical Studies program permits students to combine various courses from two or more of the College's existing programs with other University credits, with credits earned at other postsecondary institutions, and/or with training received through other educational enterprises.

The Associate of Technical Studies program is administered through the Office of the Dean and coordinated by the Associate Dean of Instruction. Interested students must complete a formal Associate Degree application. Upon application, the Associate Dean of Instruction makes an initial assessment of any transfer work and assists the applicant in selecting relevant areas of study. The application is then forwarded for review by the faculty most closely associated with the proposed area of study. Upon faculty acceptance, the application is submitted to the Associate Degree committee which, upon approval, forwards the application to the Dean of Wayne College for final approval.

The following are the graduation requirements for the Associate of Technical Studies or minor:

- ▶ Completion of an Associate Degree application specifying a coherent combination of technical courses selectively drawn from two or more technical programs currently offered at the College, with no more than three major areas of study reflecting a reasonable array of courses within each area of study.
- ▶ Approval of the Associate Degree application by the Associate Dean of Instruction, relevant faculty, the Associate of Technical Studies committee, and the Dean of Wayne College.
- ▶ Degree application of only that transfer coursework completed with a "C" (2.0) grade or better.
- ▶ Completion of at least 14 credits of "general education" courses and 14 credits of "basic" courses as required by the Ohio Board of Regents.
- ▶ Completion of at least one-half of the technical credits at The University of Akron and/or Wayne College equally divided among the selected areas of study.
- ▶ Completion of a minimum of 64 credits with a grade point average of 2.0.
- ▶ Completion of all other University graduation requirements.

• Workplace Communication Certificate

This certificate prepares individuals for the workplace communication skills demanded by today's employers. Courses focus on functional skills (writing, editing, oral presentations), as well as theoretical and technological foundations (ethics, computer-assisted design) applicable in the workplace. For employees already on the job, the certificate offers the opportunity to update skills and satisfy corporate demands; for current students, the certificate provides competence in workplace communication skills that prospective employers will seek.

Certificate Requirements		Credits
2020:222	Technical Report Writing	3
2420:301	Information Design	3
2420:302	Ethical Issues in the Workplace	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication	3
		12

College of Applied Science and Technology

The following associate degree programs are available through the College of Applied Science and Technology of The University of Akron. These outlines show the courses that a student can complete at Wayne College and the remaining courses that must be completed on the Akron campus. In many of these programs, specific course sequencing is important, especially for the full-time student. Additionally, some programs require special admission procedures be completed before enrollment in certain courses can occur. Consult an advisor at Wayne College for further explanation before enrolling for courses.

Disaster Science and Emergency Services Programs

• 2230: Fire Protection Technology

Courses at Wayne College		Credits
2020:222	Technical Report Writing	3
2040:240	Human Relations OR	3
2040:242	American Urban Society	3
2820:105	Basic Chemistry/Lab	3
3300:111	English Composition I	3
	Mathematics Requirement	4
		16

Courses at Akron Campus

2230:100	Intro to Fire Protection	4
2230:102	Fire Safety in Building Design and Construction	3
2230:104	Fire Investigation Methods	4
2230:202	Incident Management for Emergency Responders	4
2230:204	Fire and Life Safety Education	3
2230:205	Fire Detection and Suppression Systems	3
2230:206	Fire Sprinkler System Design	3
2230:250	Hazardous Materials	4
2230:254	Fire Prevention	3
2230:257	Fire and Safety Issues for Business and Industry	3
2230:280	Fire Service Administration	4
2230:295	Technical Fire Training/Field Experience	2
2230:296	Technical Fire Training/Field Experience II	2
2420:263	Professional Communication and Presentations	3
		45

• 2240: Emergency Medical Services Technology — Fire Medic

Courses at Wayne College		Credits
2040:240	Human Relations	3
2740:120	Medical Terminology	3
3300:111	English Composition I	3
7600:106	Effective Oral Communications	3
	Mathematics Requirement	4
		16

Courses at Akron Campus

2230:100	Intro to Fire Protection	4
2230:254	Fire Prevention	3

2230:295	Field Experience I	2
2230:296	Field Experience II	2
2240:201	Fundamentals of EMT-Paramedic I	3
2240:202	Fundamentals of EMT-Paramedic II	3
2240:203	Fundamentals of EMT-Paramedic III	3
2240:204	Fundamentals of EMT-Paramedic IV	3
2240:205	Fundamentals of EMT-Paramedic V	3
2240:206	Fundamentals of EMT-Paramedic VI	3
2240:207	Fundamentals of EMT-Paramedic VII	3
2240:208	Fundamentals of EMT-Paramedic VIII	3
2240:209	Fundamentals of EMT-Paramedic IX	3
2240:211	Fundamentals of EMT-Paramedic X	3
2780:106	Anatomy and Physiology for Allied Health I	3
		44

— EMT Paramedic**Courses at Wayne College**

2040:240	Human Relations	3
2740:120	Medical Terminology	3
3300:111	English Composition I	3
7600:106	Effective Oral Communications	3
	Mathematics Requirement	4
		16

Courses at Akron Campus

2230:100	Intro to Fire Protection	4
2230:202	Incident Management for First Responders	4
2230:257	Fire and Safety Issues for Business and Industry	3
2240:201	Fundamentals of EMT-Paramedic I	3
2240:202	Fundamentals of EMT-Paramedic II	3
2240:203	Fundamentals of EMT-Paramedic III	3
2240:204	Fundamentals of EMT-Paramedic IV	3
2240:205	Fundamentals of EMT-Paramedic V	3
2240:206	Fundamentals of EMT-Paramedic VI	3
2240:207	Fundamentals of EMT-Paramedic VII	3
2240:208	Fundamentals of EMT-Paramedic VIII	3
2240:209	Fundamentals of EMT-Paramedic IX	3
2240:211	Fundamentals of EMT-Paramedic X	3
2780:106	Anatomy and Physiology for Allied Health I	3
		44

• 2440: Computer Information Systems programs**— Cisco Networking****Courses at Wayne College**

2030:152	Technical Mathematics II AND	2
2030:153	Technical Mathematics III	2
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Intro to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2440:145	Intro to Unix/Linux	3
3300:111	English Composition I	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication OR	3
2420:263	Professional Communication and Presentations	3
	Diversity Requirement	2
	Natural Science Requirement	3
		33

Courses at Akron Campus

2440:120	Intro to Logic/Programming	3
2440:141	Website Administration	3
2440:201	Networking Basics	3
2440:202	Router and Routing Basics	3
2440:203	Switching Basics and Wireless	3
2440:204	WAN Technologies	3
2440:240	Computer Information Systems Internship	3
2440:247	Hardware Support	3
2440:248	Server Hardware Support	3
		27

— Programming**Courses at Wayne College**

2030:152	Technical Math II AND	2
2030:153	Technical Math III	2
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Intro to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2440:140	Internet Tools	3
2440:145	Intro to Unix/Linux	3
2440:170	Visual BASIC	3
3300:111	English Composition I	3
7600:106	Effective Oral Communication OR	3
		3

2420:263	Professional Communications and Presentations	3
	Diversity Requirement	2
	Natural Science Requirement	3
		39

Courses at Akron Campus

2440:121	Intro to Logic/Programming	3
2440:160	Java Programming	3
2440:180	Database Concepts	3
2440:210	Client/Server Programming	3
2440:240	CIS Internship	3
2440:241	Systems Analysis and Design	3
2440:256	C++ Programming	3
		21

• 2850: Corrosion Engineering Technology**Courses at Wayne College**

2020:222	Technical Report Writing	3
2030:153	Technical Mathematics III	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2040:256	Diversity in American Society	3
3300:111	English Composition I	3
7600:106	Effective Oral Communication	3
		20

Courses at Akron Campus

2030:154	Technical Math IV	3
2820:111	Introductory Chemistry	3
2820:112	Introductory and Analytical Chemistry	3
2820:160	Technical Physics: Mechanics	4
2820:163	Technical Physics: Electricity and Magnetism	2
2850:120	Corrosion Engineering Technology Fundamentals 1	3
2850:121	Corrosion Engineering Technology Fundamentals 2	4
2850:220	Strategies for Corrosion Prevention	4
2850:221	Corrosion Engineering Technology Projects	4
2880:241	Introduction to Quality Assurance	3
2920:142	Introduction to Material Technology	3
2990:125	Statics	3
2990:225	Strength of Materials	3
		42

• 2860: Electronic Engineering Technology**Courses at Wayne College**

2030:153	Technical Math III	2
2040:240	Human Relations	3
3300:111	English Composition I	3
	Diversity Requirement	2
		10

Courses at Akron Campus

2030:154	Technical Math IV	3
2030:255	Technical Calculus I	3
2040:243	Contemporary Global Issues	3
2420:263	Professional Communications and Presentations	3
2820:160	Technical Physics: Mechanics	4
2820:164	Technical Physics: Heat and Light	2
2860:120	Circuit Fundamentals	4
2860:121	Intro to Electronics and Computers	2
2860:122	AC Circuits	2
2860:123	Electronic Devices	4
2860:225	Applications of Electronic Devices	4
2860:237	Digital Circuits	4
2860:242	Machinery and Controls	3
2860:238	Microprocessor Applications OR	4
2860:251	Electronic Communications	4
2860:260	Electronics Project	2
	Technical Elective	3
		51

• 2880: Advanced Manufacturing Engineering Technology

Courses at Wayne College

2030:152	Technical Math II	2
2030:153	Technical Math III	2
2040:256	Diversity in American Society	3
3300:111	English Composition I	3
2020:222	Technical Report Writing OR	3
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	General Elective	1
		17

Courses at Akron Campus

2030:154	Technical Math IV	3
2040:243	Contemporary Global Issues	3
2820:160	Technical Physics: Mechanics	4
2880:101	Intro to Advanced Manufacturing	2
2880:110	Manufacturing Processes	3
2880:130	Work Measurement and Cost Estimating	3
2880:140	Computer Aided Drawing	3
2880:151	Industrial Safety and Environmental Protection	2
2880:201	Robotics and Automated Manufacturing	3
2880:211	Manufacturing Operations	3
2880:225	Computer Aided Tool Design	3
2880:241	Intro to Quality Assurance	3
2880:248	Intro to CNC and Additive Manufacturing	3
2920:130	Intro to Hydraulics and Pneumatics	3
	Technical Electives	2
		43

• 2920: Mechanical Engineering Technology

Courses at Wayne College

2020:222	Technical Report Writing	3
2040:256	Diversity in American Society	3
3300:111	English Composition	3
7600:106	Effective Oral Communication	3
		12

Courses at Akron Campus

2030:154	Technical Math IV	3
2030:255	Technical Calculus I	3
2420:103	Essentials of Management Technology	3
2820:131	Software Applications for Technology	1
2820:160	Technical Physics: Mechanics	4
2820:163	Technical Physics: Electricity and Magnetism	2
2820:164	Technical Physics: Heat and Light	2
2870:348	CNC Programming I	3
2920:100	Survey of Mechanical Engineering Technology	2
2920:101	Intro to Mechanical Design	3
2920:142	Intro to Materials Technology	3
2920:243	Kinematics	3
2920:245	Mechanical Design II	5
2920:249	Applied Thermal Energy I	2
2920:251	Fluid Power	2
2920:252	Thermo-Fluids Lab	1
2920:121	Fundamentals of Engineering Drawing	3
2990:125	Statics	3
2990:225	Strength of Materials	3
		51

• 2980: Land Surveying

Courses at Wayne College

3300:111	English Composition I	3
3350:100	Intro to Geography	3
7600:106	Effective Oral Communications	3
		9

Courses at Akron Campus

2030:153	Technical Math III	2
2030:154	Technical Math IV	3
2030:260	Advanced Trigonometry	2
2040:243	Contemporary Global Issues	3
2820:160	Technical Physics: Mechanics	4
2980:170	Surveying Drafting	3
2980:100	Intro to Geomatics	2
2980:101	Basic Surveying I	3
2980:102	Topographic Surveying	2
2980:123	Surveying Field Practice	2
2980:222	Construction Surveying	3
2980:223	Fundamentals of Map Production	3
2980:225	Advanced Surveying	3
2980:228	Boundary Surveying	3
2980:355	Computer Applications in Surveying	3

2980	Surveying Electives	2
2985:101	Intro to Geographic and Land Information Systems	3
2985:251	CST Seminar	1
3370:101	Introductory Physical Geology	4
		51

• 2990: Construction Engineering Technology

Courses at Wayne College

2020:222	Technical Report Writing	3
2040:242	American Urban Society	3
3300:111	English Composition I	3
7600:106	Effective Oral Communication	3
	Electives	3
		15

Courses at Akron Campus

2030:154	Technical Math IV	3
2030:255	Technical Calculus I	3
2820:160	Technical Physics: Mechanics	4
2820:163	Technical Physics: Electricity and Magnetism	2
2820:164	Technical Physics: Heat and Light	2
2990:125	Statics	3
2990:129	Computer Applications in Construction	3
2990:150	Plan Reading	2
2990:231	Building Construction	2
2990:234	Elements of Structures	3
2990:237	Materials Testing I	2
2990:238	Materials Testing II	2
2990:225	Strength of Materials	3
2990:245	Cost Analysis and Estimating	3
2990:246	Site Engineering OR	3
2980:101	Basic Surveying	3
	Technical electives	6
		46

• 2991: Construction Field Operations

Courses at Wayne College

2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
2040:240	Human Relations	3
3300:111	English Composition I	3
7600:106	Effective Oral Communication	3
	Electives	6
		22

Courses at Akron Campus

2980:101	Basic Surveying	3
2980:222	Construction Surveying	3
2990:129	Computer Applications in Construction	3
2990:131	Building Construction	2
2990:150	Plan Reading	2
2990:226	Construction Supervision	3
2990:235	Construction Inspection	3
2990:237	Materials Testing I	2
2990:238	Materials Testing II	2
2990:246	Site Engineering	3
2990:248	Construction Graphics	3
2990:310	Residential Building Construction	3
2990:356	Safety in Construction	3
3370:101	Introduction to Physical Geology	6
		39



General Education and Transfer Program

General Education provides a common intellectual experience for all university students.

The program was designed to help students develop strong communication and critical thinking skills, a broad understanding of disciplinary areas, and the knowledge and skills necessary for responsible citizenship in an interconnected world. General Education is the foundation of all undergraduate degree programs at The University of Akron.

Learning Outcomes

Students who complete the General Education Program will demonstrate foundational competency in:

- ▶ Written communication, oral communication and information literacy.
- ▶ Creating and evaluating reasoned arguments, and employing quantitative, qualitative, and normative information in such arguments.
- ▶ Knowledge of representative content and methods of inquiry of the arts, humanities, natural sciences, and social sciences.
- ▶ Knowledge and skills that promote personal, social and environmental responsibility, including knowledge of diversity, systemic relationships, and collateral effects and consequences within and across systems.

Requirements

Students pursuing a bachelor's degree must complete three tiers of General Education coursework. Tiers I and II provide students with foundational skills and breadth of disciplinary knowledge. Tier III courses require students to integrate knowledge, understand diverse perspectives, and think critically about complex issues. Courses tagged for Tier III may also fulfill major or Disciplinary Area requirements.

- ▶ **Tier I: Academic Foundations – 12 credits**
 - Qualitative Reasoning (3 hours)
 - Speaking (3 hours)
 - Writing (6 hours)
- ▶ **Tier II: Disciplinary Areas – 22 credits**
 - Arts and Humanities (9 credit hours)
 - Natural Science (7 hours, including a lab)
 - Social Science (6 hours)
- ▶ **Tier III: Tags – 4 courses**
 - Complex Systems Affecting Individuals in Society
 - Critical Thinking
 - Domestic Diversity
 - Global Diversity

Curriculum

For a printable copy of your General Education Curriculum, please visit: uakron.edu/general-education/docs/GEN-ED-GeneralEducation2.0GuideRevC5-10-2018.pdf

- ▶ **Tier I: Academic Foundations**
 - **Quantitative Reasoning – 3 credit hours**

2030:152	Technical Mathematics II AND	2
2030:153	Technical Mathematics III	2
2030:161	Mathematics for Modern Technology	3
3450:135	Mathematics for Everyday Life	3
3450:145	Algebra for Calculus	4
3450:149	Pre-Calculus	4
3470:250	Statistics for Everyday Life	4
3470:260	Basic Statistics	3
3470:261	Introduction to Statistics I AND	2

3470:262 Introduction to Statistics II 2

Students who successfully complete a mathematics or statistics course with a prerequisite on the above list satisfy the Quantitative Reasoning requirement.

- **Speaking – 3 credit hours**

2420:263	Professional Communication and Presentation	3
7600:105	Introduction to Public Speaking	3
7600:106	Effective Oral Communication	3

- **Writing – 6 credit hours**

1st Course

2020:222	Technical Report Writing	3
3300:112	Composition II	3

Students who are placed in the second writing course and successfully complete it satisfy the Writing requirement.

▶ Tier II: Disciplinary Area Courses

- **Arts and Humanities – 9 credit hours**

Arts – at least one course

3300:283	Film Appreciation	3
7100:100	Survey of History of Art I CT	3
7100:101	Survey of History of Art II GD	3
7100:210	Visual Arts Awareness	3
7500:201	Exploring Music, Bach to Rock	3
7800:100	Experiencing Theatre	3
7900:200	Viewing Dance	3

Humanities – at least one course

3200:230	Sports and Society in the Ancient World	3
3200:289	Mythology of Ancient Greece	3
3300:252	Shakespeare and his World	3
3300:281	Fiction Appreciation	3
3400:200	Empires of the Ancient World GD	3
3400:210	Humanities in the Western Tradition CT	4
3400:221	Humanities in the World Since 1300 CT	4
3501:210	Arabic Culture through Film	3
3502:210	Chinese Culture through Film	3
3560:210	Japanese Culture through Film GD	3
3580:250	Hispanic Literature in Translation	3
3600:101	Introduction to Philosophy CT	3
3600:120	Introduction to Ethics CT	3
3600:125	Theory and Evidence CT	3
3600:150	Critical Thinking CT	3
3600:170	Introduction to Logic CT	3
3600:211	History of Ancient Philosophy CT	3

Students must take at least one Arts course and at least one Humanities course. The second Arts or Humanities course may be in the same department or in a different one.

- **Natural Science – 7 credit hours, including one lab**

2780:106	Anatomy and Physiology I, Allied Health	3
2780:107	Anatomy and Physiology II, Allied Health	3
2820:105	Basic Chemistry and Lab	3
2820:111	Introductory Chemistry and Lab	3
2820:112	Introductory and Analytical Chemistry and Lab	3
2820:160	Technical Physics – Mechanics and Lab	4
2820:163	Technical Physics – Electricity and Magnetism	2
2820:164	Technical Physics – Heat and Light	2
3100:103	Natural Science Biology and Lab	4
3100:106	Exploring Biology	3
3150:101	Chemistry for Everyone and Lab	4
3230:151	Human Evolution and Lab	4
3370:100	Earth Science	3
3370:101	Introductory Physical Geology and Lab	4
3370:121	Dinosaurs	1
3370:122	Mass Extinctions and Geology	1
3370:133	Caves	1
3370:135	Geology of Energy Resources	1
3370:171	Introduction to Oceans	3
3370:200	Environmental Geology	3
3370:201	Exercises in Environmental Geology I and Lab	1
3370:203	Exercises in Environmental Geology II and Lab	1
3370:211	Introduction to Environmental Science	3
3650:130	Descriptive Astronomy and Lab	4
3650:133	Music, Sound, and Physics and Lab	4
3650:137	Light and Lab	4
7760:133	Nutrition Fundamentals	3

A majors-track course in the natural sciences can substitute for a general education natural science course.

Students may fulfill the Natural Sciences requirement with any coursework that adds up to seven credit hours and includes a lab, using courses from the same department or different ones.

• **Social Science – 6 credit hours**

2040:240	Human Relations	3
2040:242	American Urban Society	3
2040:243	Contemporary Global Issues GD	3
2040:244/344	Death and Dying DD	3
2040:247	Survey of Basic Economics CT	3
2040:254	Black Experience from 1619-1877 DD	2
2040:256	Diversity in American Society DD	2
2040:257	Black Experience from 1877-1954 DD	2
2040:258	Black Experience from 1954-Present DD	2
3230:150	Human Cultures	3
3230:251	Human Diversity GD	3
3240:100	Introduction to Archaeology	3
3250:100	Introduction to Economics	3
3250:200	Principles of Microeconomics	3
3250:244	Introduction to Economic Analysis	3
3350:100	Introduction to Geography	3
3400:250	United States History to 1877 DD	4
3400:251	United States History since 1877 DD	4
3700:100	Government and Politics in the United States	3
3700:150	World Politics and Governments	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology DD	3

Students may fulfill the Social Science area requirement using courses from the same department or different ones.

Courses marked CS, CT, DD, or GD also fulfill a tag requirement

▶ **Tier III: Tagged Courses**

• **Complex Systems Affecting Individuals in Society one course**

2040:241	Technology and Human Values	3
3230:370	Globalization and Culture	3
3230:420	Anthropology of Food	3
3230:457	Medical Anthropology	3
3230:460	Field Methods in Cultural Anthropology	4
3250:385	Natural Resources and the Environment	3
3250:430	Labor Market and Social Policy	3
3370:421	Coastal Geology	3
3370:452	Geology and Environmental Science	3
	Service Learning	3
3370:498	River Seminar	3
3580:308	Spanish Composition: Health Professions and First Responders	3
3600:361	Biomedical Ethics	3
3600:365	Environmental Ethics	3
3750:425	Psychology of Hate	4
3760:401	American Families in Poverty	3
3850:320	Social Inequalities	3
3850:330	Criminology	3
3850:342	Sociology of Health and Illness	3
3850:433	Deviant Behavior	3
4400:402	Senior Design Project II: Electrical Engineering	3
4450:402	Senior Design Project II: Computer Engineering	3
4600:461	ME Senior Design Project I	2
4600:497	Honors Project in Mechanical Engineering	2
4800:491	Biomedical Engineering Design I	2
4900:490	Aerospace Design Project	2
4900:497	Aerospace Honors Project	2
5500:223	Urban Youth Mentoring	3
8200:440	Nursing of Communities	5

Courses marked SS also fulfill a Tier II Disciplinary Area requirement

• **Critical Thinking – one course**

2030:255	Technical Calculus I	3
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2040:349	Integrated Human Behavior and Health	3
3100:423	Population Biology	3
3100:486	Cell Physiology Laboratory	2
3230:359	Anthropological Theory	3
3240:400	Archaeological Theory	3
3250:226	Computer Skills for Economic Analysis	3
3250:380	Money and Banking	3
3250:400	Intermediate Macroeconomics	3
3250:410	Intermediate Macroeconomics	3
3250:426	Applied Econometrics	3
3300:300	Critical Reading and Writing	3
3370:231	Silicate Mineralogy and Petrology	4
3370:350	Structural Geology	4
3370:444	Environmental Magnetism	3
3400:210	Humanities in the Western Tradition HUM	4
3400:221	Humanities in the World Since 1300 HUM	4
3400:323	History of Modern Europe	3
3600:101	Introduction to Philosophy HUM	3
3600:120	Introduction to Ethics HUM	3
3600:125	Theory and Evidence HUM	3
3600:150	Critical Thinking HUM	3

3600:170	Introduction to Logic HUM	3
3600:211	History of Ancient Philosophy HUM	3
3600:312	History of Medieval Philosophy	3
3600:313	History of Modern Philosophy	3
3750:110	Psychology Quantitative Methods	4
3750:220	Introduction to Experimental Psychology	4
3750:441	Clinical and Counseling Psychology	4
3850:301	Research Methods I	3
4400:401	Electrical Engineering Senior Design I	2
4450:401	Computer Engineering Senior Design I	2
6400:200	Foundations of Personal Finance	3
6600:335	Marketing Research	3
7100:100	Survey of Art History I ART	3
7500:371	Analytical Techniques	2
7600:245	Argumentation	3

Courses marked ART or HUM also fulfill a Tier II Disciplinary Area requirement

• **Domestic Diversity – one course**

2040:244/344	Death and Dying SS	3
2040:254	Black Experience from 1619-1877 SS	2
2040:256	Diversity in American Society SS	3
2040:257	Black Experience from 1877 – 1954 SS	2
2040:258	Black Experience from 1954 – Present SS	2
3001:200	Introduction to Women's Studies	3
3002:201	Introduction to Pan-African Studies	3
3230:358	Native North Americans	3
3250:487	Urban Economics	3
3300:350	Black American Literature	3
3350:350	Geography of the United States and Canada	3
3350:443	Urban Applications in GIS	3
3400:250	U.S. History to 1877 SS	4
3400:251	U.S. History since 1877 SS	4
3400:350	U.S. Women's History	3
3580:307	Spanish Conversations for Health Professions	3
3600:455	Philosophy of Feminism	3
3750:435	Cross-Cultural Psychology	4
3750:474	Psychology of Women	4
3850:100	Introduction to Sociology SS	3
7600:325	Intercultural Communication	3
7750:270	Diversity and Social Work	3
7800:467	Multicultural Theatre	3

Courses marked SS also fulfill a Tier II Disciplinary Area requirement

• **Global Diversity – one course**

2040:243	Contemporary Global Issues (3) SS	3
3230:150	Human Cultures (3)	3
3230:251	Human Diversity (3) SS	3
3230:416	Anthropology of Sex and Gender	3
3250:460	Economics of Developing Countries	3
3300:362	World Literatures	3
3350:275	Geography of Cultural Diversity	3
3400:200	Empires of the Ancient World HUM	3
3400:292	Global Societies: Africa	3
3400:294	Global Societies: India	3
3400:295	Global Societies: Japan	3
3400:296	Global Societies: Latin America	3
3400:297	Global Societies: Middle East	3
3400:337	France from Napoleon to De Gaulle	3
3400:395	Modern Iran	3
3400:489	Ottoman State and Society	3
3400:499	Women and Gender in Mid East Soc Global Diversity	3
3560:210	Japanese Culture through Film	3
3580:360	Hispanic Culture through Film	3
3600:340	Eastern Philosophy	3
3700:300	Comparative Politics	4
3850:321	Population Study	3
7100:101	Survey of History of Art II ART	3
7800:335	History of Theatre and Dramatic Literature I	3
7800:435	History of Theatre and Dramatic Literature II	3

Courses marked ART, HUM or SS also fulfill a Tier II Disciplinary Area requirement

¹For the Arts and Humanities Requirement, students must take at least one Arts course and at least one Humanities course. The second Arts or Humanities course may be in the same department or in a different one.

²The Quantitative Reasoning Requirement varies by department. Please consult an advisor for specific requirements. (Students enrolling in a higher-level mathematics course may use it to meet their Quantitative Reasoning Requirement)

³For the Natural Science Requirement, a minimum of seven credits is required. One course must have a Lab component. However, departmental requirements may vary. Please consult an advisor for specific information. (Students in higher-level science courses with a lab may use those courses to meet their General Education Requirements.

⁴Students may satisfy the Social Sciences Requirement by completing two courses totaling six credits. The courses can be from the same department or different ones. Please consult an advisor for specific information.

⁵In the arts program, a student is free to choose any electives, but they must be in some logical sequence. They should lead to some upper-college degree program, i.e., arts and sciences, education, health sciences and human services, or creative and professional arts. In the science program, a student is free to choose any electives. However, at least two-thirds of the credits must be in the natural sciences; mathematics, statistics or computer science; engineering; business administration; or nursing department; and should lead to some upper-college degree objective.

• 2020: Arts and Science

These are programs of general education intended to produce a socially intelligent individual, one who understands effective social behavior and appreciates social values and scientific facts. The student intending to transfer to a bachelor's degree-granting college/university (including The University of Akron) may want to complete one of these associate degree programs prior to transfer. Doing so certifies the successful completion of two years of collegiate education at an accredited institution of higher education. Completing the Associate of Arts or the Associate of Science also fulfills the Transfer Module as outlined by the Department of Higher Education.

Courses in the Associate of Arts and Associate of Science include:		Credits
3300:111	English Composition I	3
3300:112	English Composition II	3
7600:105	Intro to Public Speaking OR	3
7600:106	Effective Oral Communication	3
	Arts and Humanities Requirement ¹	9
	Quantitative Reasoning Requirement ²	3
	Natural Science Requirement ³	7
	Social Sciences Requirement ⁴	6
	Electives ⁵	26
		60

¹For the Arts and Humanities Requirement, students must take at least one Arts course and at least one Humanities course. The second Arts or Humanities course may be in the same department or in a different one.

²The Quantitative Reasoning Requirement varies by department. Please consult an advisor for specific requirements. (Students enrolling in a higher-level mathematics course may use it to meet their Quantitative Reasoning Requirement)

³For the Natural Science Requirement, a minimum of seven credits is required. One course must have a Lab component. However, departmental requirements may vary. Please consult an advisor for specific information. (Students in higher-level science courses with a lab may use those courses to meet their General Education Requirements.

⁴Students may satisfy the Social Sciences Requirement by completing two courses totaling six credits. The courses can be from the same department or different ones. Please consult an advisor for specific information.

⁵In the arts program, a student is free to choose any electives, but they must be in some logical sequence. They should lead to some upper-college degree program, i.e., arts and sciences, education, health sciences and human services, or creative and professional arts. In the science program, a student is free to choose any electives. However, at least two-thirds of the credits must be in the natural sciences; mathematics, statistics or computer science; engineering; business administration; or nursing department; and should lead to some upper-college degree objective.



COURSE FACTS

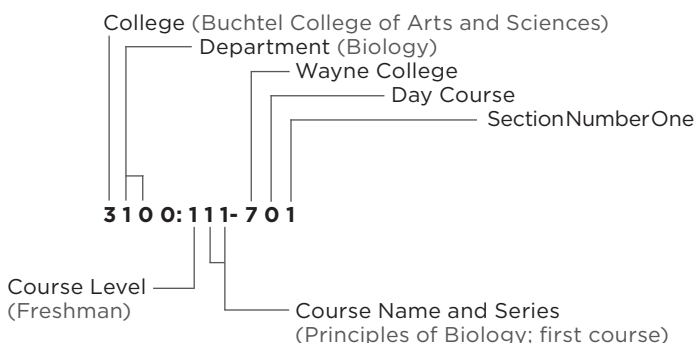
Course Numbering System

UA Wayne College, as a regional campus of The University of Akron, employs the course numbering system of the University. University course numbers consist of 10 digits separated into three sets by a colon and a dash. The first digit represents the name of the college in which the course is offered, e.g., 3 = Buchtel College of Arts and Sciences. The next two digits refer to the department within the college, e.g., 10 = Biology. The last zero is for administrative convenience.

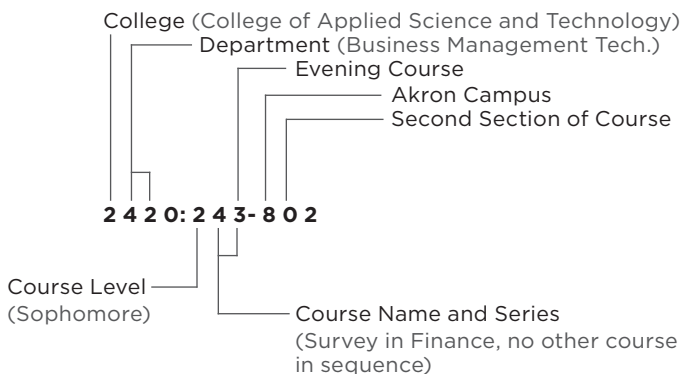
After the colon, the first digit in the second set represents the level of the course, e.g., 1 = freshman, 2 = sophomore, 3 = junior and 4 = senior. Courses with a beginning course digit of 5 or above may only be taken by graduate students. The last two digits in the second set of numbers refer to the course name and series, e.g., 11 = Principles of Biology, initial course; 12 = Principles of Biology, second course.

The last three digits - after the dash - represent the section (when and where the course is offered). All sections offered by Wayne College have a first digit of 7. The second digit represents where the section is being held (Wayne campus or off-campus) and whether it is a day section (12:00 a.m. to 4:29 p.m. start time), evening section (4:30 p.m. to 11:59 p.m. start time), a Saturday section or an off campus section.

EXAMPLE 1



EXAMPLE 2



The yearly schedule of courses at UA Wayne College is based on program enrollments and student needs. Thus, course offerings during the year may not include all of, or may reflect additions to, the following list of courses.

General Education

1100:

- 101 The Akron Experience: University 101** **2 credits**
Acquisition of the skills, techniques, information, and strategies necessary to aid new students in their transition from high school or work to the college environment.
- 117 Career Planning** **2 credits**
Learners develop the skills necessary to make effective educational and career decisions. Emphasis upon self-understanding, career exploration, career planning, and decision making.

Developmental Programs

2010:

- 042 Basic Writing** **4 Load Hours***
Prerequisite: placement. Provides intensive practice in the process of writing, in sentence structure and punctuation, and in correct written expression. Upon successful completion of Basic Writing, the student should be prepared to enter English (2020:121) or English Composition I (3300:111). Writing Lab hours are required.
- 050 Basic Mathematics I** **4 Load Hours***
Prerequisite: placement. An intensive review of arithmetic and an introduction to the concepts of elementary algebra. Emphasis is placed on developing learning strategies and controlling anxieties. Upon successful completion of Basic Mathematics I, the student should be prepared to enter 2010:052 Basic Mathematics II.
- 052 Basic Mathematics II** **4 Load Hours***
Prerequisite: 2010:050 or placement. A brief review of arithmetic and intensive instruction in elementary algebra. Emphasis is placed on developing learning strategies and controlling anxieties. Upon successful completion of Basic Mathematics II, the student should be prepared to enter 2420:170 Applied Mathematics for Business, 2030:130 Introduction to Technical Mathematics, 2030:151 Elements of Mathematics I, or 3450:100 Preparatory Mathematics.
- 060 College Reading** **4 Load Hours***
Prerequisite: placement. Designed to strengthen the basic comprehension skills needed for academic work, including recognition of main points and key supporting ideas, inferencing, summarizing, and vocabulary development. Upon successful completion of College Reading, the student should be prepared to enter 2010:062 College Reading and Study Skills. Lab hours are required.
- 062 College Reading and Study Skills** **4 Load Hours***
Prerequisite: 2010:060 or placement. Continued practice of comprehension strategies with emphasis on textbook reading, and implementation of effective study strategies such as note taking, test taking, and memory techniques. Upon successful completion of College Reading and Study Skills, the student should be prepared to apply reading and study strategies in college classes. Lab hours are required.

064 Applied Study Strategies **2 Load Hours***
 Corequisite: Selected General Education courses taken concurrently. Designed to help students apply various study strategies to a specific course, such as psychology or sociology. Includes lecture and textbook analysis, memory techniques, and test-taking strategies. Lab hours are required.

085 Fundamentals of Mathematics V **3 Load Hours***
 Prerequisites: Placement or successful completion of one of the following: 2010:052, 2010:054, 2010:057, 2010:084. Introduction in elementary algebra including factoring, functions, graphing, roots and radicals. Upon successful completion of Fundamental Mathematics V, the student should be prepared to enroll in 3450:145 Algebra for Calculus.

* Load hours do not carry academic credit toward a degree program, but do count in computing a student's course load for financial aid or student employment and are used in probation and dismissal decisions.

Distinguished Student Program

2015:

150 Distinguished Student Colloquium **2 Credits**
 Prerequisite: Admission to the Distinguished Student Program. A discussion-based seminar that focuses on a particular topic and examines it in depth.

Associate Studies

- English

2020:

222 Technical Report Writing **3 Credits**
 Prerequisite: 3300:111 or equivalent. Prepares student to write the types of reports most often required of engineers, scientists and technicians. Includes types of reports, memoranda, letters, techniques of research, documentation and oral presentation.

290 Special Topics: Associate Studies **1-4 Credits**
 (May be repeated with a change in topic) Prerequisite: permission. Selected topics on subject areas of interest in associate studies.

Associate Studies

- Mathematics

2030:

130 Mathematics for Allied Health **3 Credits**
 Prerequisite: Placement test or completion of 2010:052, 054, 057 or 084 with a grade of C or better. The real number system, systems of measurement, conversions, linear equations, factoring, quadratic equations, graphing, linear systems, organizing data, averages, standard deviation, the normal distribution.

151 Technical Mathematics I **2 Credits**
 Prerequisite: Placement test or completion of 2010:052, 054, 057 or 084 with a grade of C or better. Fundamental concepts and operations, functions, graphs, factoring and algebraic fractions, and quadratic equations.

152 Technical Mathematics II **2 Credits**
 Prerequisite: 2030:151 with a grade of C- or better, or placement test. Variation, equation of lines, Cramer's rule, right triangle trigonometry, oblique triangles, complex numbers.

153 Technical Mathematics III **2 Credits**
 Prerequisite: 2030:152 or equivalent with a grade of C- or better or placement test. Factoring, algebraic fractions, exponents and radicals, equations with radicals, equations in quadratic form, exponential and logarithmic functions, radian measure, matrices.

161 Mathematics for Modern Technology **4 Credits**
 Prerequisite: test or completion of 2010:052, 054, 057 or 084 with a grade of C or better. Lines, linear regression, sets, counting, basic probability, basic statistics, binomial and normal distributions, mathematics of finance, symbolic logic, arguments, logic circuits.

Associate Studies

- Social Studies

2040:

240 Human Relations **3 Credits**
 Examination of principles and methods that aid in understanding the individual's response to society and the relationship between society and individuals.

241 Technology and Human Values **2 Credits**
 Examination of impact of scientific and technical change upon people, their values and institutional arrangements. Topics include biomedical technology, automation, economic growth, natural environment and technology and quality of life.

247 Survey of Basic Economics **3 Credits**
 Introduction to economic analysis and issues designed for the student taking only one course in economics. Coverage includes economic systems, exchange, money and banking, national income, employment, fiscal policy and current domestic economic problems.

251 Human Behavior at Work **3 Credits**
 Examination of relationship between human behavior and the work organization. Emphasis on how contemporary organizations are changing and what makes individuals within their organizations more effective.

256 Diversity in American Society **3 Credits**
 Prerequisite: 2020:121, or 3300:112 or equivalent. Survey course covering demographic, social, economic, political, and educational realities of diversity in the 21st century. Focus on diversity and unity, historical overview.

257 The Black Experience 1877 - 1954 **2 Credits**
 Prerequisites: 2020:121 or 3300:112. Examines the experiences of Blacks following Reconstruction. Topics to include: Separate but Equal doctrine, segregation, integration, and the achievements of Blacks in American society.

Individual Study

2100:

190 Individualized Study **1 Credit**
 Prerequisite: Admission to the Distinguished Student Program. An independent study project on a specific topic mutually determined by the student and a supervising faculty member.

Business Management Technology

2420:

- | | |
|-----|---|
| 103 | Essentials of Management Technology 3 Credits
Survey of management principles for business and other organizations. Emphasizes the basic management functions including planning, organizing, staffing, influencing, and control. |
| 104 | Intro to Business in the Global Environment 3 Credits
Survey of business emphasizing the global nature of business and including entrepreneurship concepts, form, marketing, management, human resources, financial resources and production. |
| 140 | Keyboarding 2 Credits
Fundamentals in the operation of a keyboard; application emphasis on individual student needs such as resumes, application letters and forms, term reports, abstracting, etc. |
| 202 | Elements of Human Resource Management 3 Credits
Prerequisite: 2420:103 or permission. Provides students with an overview of human resource management functions. Includes planning, EEO/AA, selection, development, legal environment, compensation, labor relations, appraisal systems, and career planning. |
| 211 | Basic Accounting I 3 Credits
Accounting for sole proprietorships operating as service and merchandising concerns. Includes handling of cash, accounts receivable, inventories, plant/equipment, and payroll. |
| 212 | Basic Accounting II 3 Credits
Prerequisite: 2420:211. A study of accounting as it applies to partnerships and corporations. Includes stocks, bonds, cash flows, financial statement analysis, and specialized accounting software. |
| 213 | Essentials of Management Accounting 3 Credits
Prerequisite: 2420:211. Study of the interpretation and use of accounting data by management in decision making and the planning and controlling of business activities. |
| 214 | Essentials of Intermediate Accounting 3 Credits
Prerequisite: 2420:212. Study of development of financial accounting theory and its application to problems of financial statement generation, account valuation, analysis of working capital and determination of net income. |
| 216 | Survey of Cost Accounting 3 Credits
Prerequisite: 2420:213. Provides student with conceptual understanding of how accounting information is developed and used for product costing, decision making, and managerial planning and control. |
| 217 | Survey of Taxation 3 Credits
Survey course of basic tax concepts, research, planning, and preparation of returns for individuals, partnerships, and corporations. Federal, state and local business taxes are discussed. |
| 218 | Automated Bookkeeping 2 Credits
Corequisite: 2420:212. Provides experience with accounting software packages to include the processing of general ledger, accounts receivable, accounts payable, and payroll transactions. |
| 243 | Survey in Finance 3 Credits
Prerequisite: 2420:170 and 2420:211. Survey of field including instruments, procedures, practices and institutions. Emphasis on basic principles. |
| 245 | Business Management Accounting Internship 3 Credits
Prerequisites: 2420:212 and 213 or 215 and 216. An accounting field experience exposing the student to the actual accounting environment and general workplace. |
| 246 | Business Management Internship 3 Credits
Prerequisites: 32 credits completed, including: 2420:103, 104, 212, 280, 2040:240, 6300:201. A management field experience exposing the student to the actual management environment and general workplace. |
| 250 | Problems in Business Management 3 Credits
Prerequisites: 2420:103, 104, 212, 243, 2520:101. Capstone course studies the development of solutions and the formulation of policies to solve business problems, emphasizes case studies, group projects, oral and written presentations. |
| 263 | Professional Communications and Presentations 3 Credits
Prerequisite or corequisite: 2020:121 or 3300:111. Application of the principles of communication in speeches, business presentations, group discussions, and business documents. |
| 280 | Essentials of Business Law 3 Credits
History of the law and the judicial system, torts and criminal law affecting business contracts with emphasis on sales under the UCC, and commercial paper. |
| 290 | Special Topics: Business Management Tech. 1-3 Credits
(May be repeated for a total of four credits) Prerequisite: permission. Selected topics or subject areas of interest in business management technology. |
| 300 | Supervision in a Technical Environment 3 Credits
Competencies required for successful transition from individual contributor to supervisor. Emphasis on working effectively with others and self-development as a leader. |
| 301 | Information Design 3 Credits
Prerequisites: 2020:121 and 222 or 3300:111 and 112 or equivalent. Principles of visual rhetoric and practice in communicating with text and graphics. Examines the role of design in a variety of workplace communication documents. |
| 302 | Ethics and Law in Business 3 Credits
Prerequisites Junior/Senior standing. Workplace ethical principles and legal issues such as liability, safety, quality, honesty, and confidentiality. Case studies and projects explore global, legal, and technological issues affecting employee interaction in the workplace. |
| 310 | Leadership Principles and Practices for Technical Organizations 3 Credits
Prerequisite: 300 or permission. Contemporary perspectives and issues in leadership and supervision. Development of effective leadership characteristics. |
| 311 | Corporate Social Responsibility and Leadership 3 Credits
Prerequisite/Corequisite: 2420:300 with a C or better. Theory and best practices in corporate social responsibility, community service and leadership in local, national and global settings. Identify leadership opportunities for future contributions. |
| 401 | Leading Project Teams 3 Credits
Prerequisite: 310 with a grade of C or better. Examines and applies the operational human aspects of project team management from conception to completion. |
| 402 | Operational Assessments and Improvements 3 Credits
Prerequisites: 3470:250 or 260; and 2420:310 with a grade of C or better. Methods for conducting business process assessments and evaluating results in technical |

organizations/settings.

- 420 Human Resources Development 3 Credits**
Prerequisite: 310 with a grade of C or better. Overview of current theories and best practices in human capital development.
- 421 Senior Seminar in Organizational Supervision 3 Credits**
Prerequisite: 402 with a grade of C or better. Integration and application of professional knowledge, skills, and technologies to organizational issues.

Computer Information Systems

2440:

- 105 Intro to Computers and Applications Software 3 Credits**
Overview of basic computer concepts, electronic mail and Internet technologies. Introductory-level instruction and hands-on experience in word processing, spreadsheet, database and presentation software.
- 121 Intro to Logic/Programming 3 Credits**
Prerequisite: 2440:105 or pass placement test. Introduction to business problem-solving using computer-based solutions. Topics include structured design, documentation, and modularity. Includes a component of hands-on programming.
- 125 Spreadsheet Software 2 Credits**
Prerequisite: 2440:105 or pass placement test. Emphasizes mastery of spreadsheet applications using Excel.
- 140 Internet Tools 3 Credits**
Prerequisite: 2440:105 or pass placement test. Students will learn to create Web pages using HTML and enhance their documents by including hyperlinks, tables, forms, frames and images in their HTML code.
- 145 Intro to Unix/Linux 3 Credits**
Prerequisite: 2440:105 or must pass placement test, complete bridge courses, or gain permission from program director. Course explores vital functions that an operating system performs. A multi-user operating system is studied from a functional and hands-on approach.
- 160 Java Programming 3 Credits**
Prerequisite: 2440:121. Introduction to the Java programming language. Programming techniques are demonstrated through the coding, testing, and debugging of Java applications and applets.
- 170 Visual Basic 3 Credits**
Prerequisite: 2440:121. Course includes hands-on experience with Visual BASIC, design of Graphical User Interface (GUI) applications, event-driven programming, linking of Windows, and accessing relational databases.
- 256 C++ Programming 3 credits**
Prerequisite: 2440:121. This course explores object-oriented programming through C++ program development.
- 290 Special Topics: Data Processing 1-3 Credits**
Prerequisite: Permission. Seminar in topics of current interest in data processing or special individual student projects in data processing.

Marketing and Sales Technology

2520:

- 101 Essentials of Marketing Technology 3 Credits**
Survey of marketing including its environment, buyer behavior, target market selection, product decision, distribution decisions, promotion decisions, pricing decisions, and marketing management.

Health Care Office Management

2530:

- 230 Medical Coding/Billing Internship 3 Credits**
Prerequisite: 2530:240, 2530:243, and 2530:258. Internship with focus on medical coding/billing. Familiarity with the revenue cycle in health care organization including any of the following processes: patient scheduling and registration, insurance eligibility verification, collection of co-pays, documentation and coding, charge processing, claim submission, payment processing, secondary billing/appeals/accounts receivable follow-up and/or collections.
- 240 Medical Coding - Diagnostic 3 Credits**
Prerequisite: 2740:120. Designed to instill the fundamental knowledge and practice needed to understand ICD-9-CM coding classification, the course helps develop essential basic-level diagnostic coding skills.
- 241 Health Information Management 3 Credits**
This course provides a general understanding of health information management including the effective collection, analysis, and dissemination of quality data to support individual, organization, and social decisions related to disease prevention and patient care.
- 242 Medical Office Administration 3 Credits**
Prerequisite: 2740:120. This course focuses on the health care workplace and emphasizes tools (including a computer-simulated office management program) to perform all front office responsibilities.
- 243 Medical Coding II - Procedural 3 Credits**
Prerequisite: 2530:240, 2740:120. This course will cover the statistical classification systems used to describe medical procedures in the health care field including Current Procedural Terminology (CPT), Health Care Procedure Coding System (HCPCS), and International Classification of Disease (ICD).
- 244 Medical Insurance Billing 3 Credits**
Prerequisite: 2530:243. Third-party reimbursement and the completion of the standard health insurance claim form. Credit and collection policies and procedures related to the medical facility. Designed primarily to teach billing from an outpatient setting; however, basic hospital (inpatient) billing is also covered.
- 255 Health Care Office Management and Medicolegal Issues 3 Credits**
Prerequisites: Completion of 32 credit hours. This course will assist the student in developing knowledge and skills to manage a medical office practice including the fundamentals of personnel management, revenue management, practice enhancement, health information management, and medical law and ethics.

- 257 Health Care Office Finance 3 Credits**
Prerequisites: 2420:211, 2440:125. The purpose of the course is to help the student attain a sufficient level of understanding of the financial aspects of medical practice management. It will cover basic accounting practices including comparative income statements and balance sheets, revenue cycle management, relative value units, budgeting, ratio analysis, and financial management and reporting.
- 258 Internship Orientation and Career Development 3 Credits**
Prerequisite: permission. For students planning on their first internship in the Health Care Office Management or Medical Billing program. Students will complete a self-assessment; demonstrate workplace competencies; develop a resume, letter of introduction, and professional portfolio; and practice job search strategies. Successful completion of the course culminates in a confirmed internship for the following semester.
- 260 Health Care Office Management Internship 3 Credits**
Prerequisite: permission. Health Care Office Management training within an appropriate health care facility for actual work experience and observation.
- 284 Medical Office Techniques 3 Credits**
Prerequisite: 2740:120. This course provides the students with an understanding of the clinical aspects of a medical practice to ensure safety for both the employee and the patient.
- 290 Special Topics in Health Care Office Management 1-4 Credits**
Prerequisite: permission. Selected topics or subject areas of interest in health care office management.

Computer and Business Technology

2540:

- 143 Microsoft Word: Beginning 2 Credits**
Introduction to word processing software and personal computers as a tool for personal and business communications using Microsoft Word software.
- 243 Internship 2-3 Credits**
Prerequisite: Permission of instructor. Work experience in an office environment integrated with instruction on information management systems. Sharing of knowledge gained during internship in on-campus seminars.
- 289 Career Development for Business Professionals 3 Credits**
Fundamentals of job search technique, professional image development and personal and interpersonal dynamics within the business environment.
- 290 Special Topics: Office Administration 5-3 Credits**
(May be repeated for a total of four credits) Prerequisite: Permission. Selected topics or subject areas of interest in office administration.

Paraprofessional Education

2650:

- 210 Autism 2 Credits**
Corequisite: 5610:225 or permission. Study of school-age children with autism spectrum disorders. Instructional strategies, accommodations, modifications, data collection techniques, and interventions discussed and practiced through class activities and projects.

- 290 Special Topics: Paraprofessional Education 1-3 Credits**
Special topics in subject area of interest for paraprofessional education (may be repeated for a total of six credits).
- 295 Field Experience for Education Paraprofessionals 1-3 Credits**
Prerequisite: Permission of program coordinator. Supervised field experience in school and/or community settings. One hour per week seminar required. May be repeated to acquire minimum of 300 hours.

Exercise Science Technology

2670:

- 250 Exercise Science Technology Internship 3 credits**
Prerequisite: Completion of 32 credits, including 5550:201, 220 and 330, permission. Supervised observation and work experience in a fitness organization or environment in which students apply theories, concepts and skills to practical situation.
- 290 Special Topics in Exercise Science Technology 1-3 Credits**
Prerequisite: permission. Special topics in subject area of interest for Exercise Science Technology.

Medical Assisting

2740:

- 120 Medical Terminology 3 Credits**
Study of language used in medicine.
- 121 Study of Disease Processes 3 Credits**
Prerequisite: 2740:120. Study of diseases of major body functions.
- 230 Basic Pharmacology 3 Credits**
Overview of drugs used in a medical setting.

General Technology

2820:

- 105 Basic Chemistry 4 Credits**
Prerequisite: 2010:052 or one year of high school mathematics and placement. Elementary treatment of facts and principles of chemistry emphasizing biological application. Elements and compounds important in everyday life, biological processes, and medicine. Introduction to Lab techniques. Lab.
- 160 Technical Physics: Mechanics 4 Credits**
Corequisite: 2030:154. Applications of mechanics which include one and two dimensional motion, vectors, forces, equilibrium, work, power, conservation of energy, rotational motion and torque. Lab.
- 163 Technical Physics: Electricity and Magnetism 2 Credits**
Prerequisites: 2820:160 and 2030:154 with a grade of C- or better in both. Principles and applications of electricity and magnetism. Electrostatics, DC circuits, magnetism electromagnetism, and AC circuits.
- 164 Technical Physics: Heat and Light 2 Credits**
Prerequisite: 2820:160 and 2030:154 with a grade of C- or better in 160. Principles and applications of heat and light: heat energy, thermodynamics, electromagnetic waves, geometric and physical optics, introduction to quantum mechanics, and radiation.

Manufacturing Engineering Technology

2880:

- 232 Labor Management Relations** **3 Credits**
Study of historical background of labor movement, management viewpoints, legal framework for modern labor organizations and collective bargaining process.

Biology

3100:

- 103 Natural Science: Biology** **4 Credits**
Designed for non-science majors. Lab and class instruction illustrate concepts of living organisms with emphasis on mankind's position in, and influence on, the environment.
- 106 Exploring Biology** **3 Credits**
Exploration of how science works and the cellular organization, genetic inheritance and diversity of living things. Not available for credit toward a degree in biology.
- 111 Principles of Biology I** **4 Credits**
Prerequisite or corequisite: 3150:151. Molecular, cellular basis of life, energy transformations, metabolism, cell reproduction, genetics, development, immunology, evolution, and origin and diversity of life (through plants). Lab.
- 112 Principles of Biology II** **4 Credits**
Prerequisite: 3100:111 with a grade of C- or better. Animal diversity, nutrients, gas exchange, transport, homeostasis, control in plants and animals, behavior, ecology. (3100:111, 112 are an integrated course for biology majors). Lab.
- 130 Principles of Microbiology** **3 Credits**
Basic principles and terminology of microbiology, cultivation and control of microorganisms, relationships of microorganisms to man and his environment, medical microbiology. Lab.
- 200 Human Anatomy and Physiology I** **3 Credits**
Study of structure and function of the human body. Molecular, cellular function, histology, integumentary systems, skeletal system, muscular system, nervous system, and the sense organs.
- 201 Human Anatomy and Physiology Lab I** **1 Credit**
Lab devised to allow hands-on experience using models, dissections of various animals, virtual dissection, and physiological exercises.
- 202 Human Anatomy and Physiology II** **3 Credits**
Prerequisite: 3100:200. Study of structure and function of the human body. Endocrine system, cardiovascular system, lymphatics, respiratory system, urinary system, digestive system, and reproductive systems.
- 203 Human Anatomy and Physiology Lab II** **1 Credit**
Lab devised to allow hands-on experience using models, dissections of various animals, virtual dissection, and physiological exercises.
- 211 General Genetics** **3 Credits**
Prerequisite: 3100:112 with a grade of C- or better. Principles of heredity, principles of genetics.
- 212 General Genetics Lab** **1 Credit**
Prerequisite or corequisite: 3100:211. Lab experiments in genetics. Emphasis on scientific method and techniques in molecular biology.

- 217 General Ecology** **3 Credits**
Prerequisite: 3100:112 with a grade of C- or better. Study of interrelationships between organisms and environment.
- 265 Introductory Human Physiology** **4 Credits**
Study of physiological processes in human body, particularly at organ-systems level. Not open to preprofessional majors. Lab. Not available for credit toward a degree in biology.
- 311 Cell and Molecular Biology** **3 Credits**
Prerequisites: 3100:211, 3150:151, 152, 153, 154. Study of the structure and function of cells, with emphasis on both classical and modern approaches to understanding organelles, energy balance, protein synthesis, and replication.

Chemistry

3150:

- 100 Chemistry and Society** **3 Credits**
Qualitative introduction to chemistry using current world problems and commercial products, such as the ozone layer, nuclear fission, polymers and drugs, to introduce chemical principles.
- 101 Chemistry for Everyone** **4 Credits**
Integrated, hands-on Lab instruction in the fundamental concepts of chemistry for general education and middle-level licensure for pre-service and in-service teachers.
- 110 Intro to General, Organic and Biochem I** **3 Credits**
Sequential. Introduction to principles of chemistry and fundamentals of inorganic and biochemistry. Structure and chemistry of carbohydrates, lipids, proteins, biochemistry of enzymes, metabolism, and radiation.
- 111 Intro to General, Organic and Biochem Lab I** **1 Credit**
Prerequisite/Corequisite: 3150:110. Sequential. Lab course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry.
- 112 Intro to General, Organic and Biochem II** **3 Credits**
Prerequisite: 3150:110. Sequential. Introduction to principles of chemistry and fundamentals of inorganic and biochemistry. Structure and chemistry of carbohydrates, lipids, proteins, biochemistry of enzymes, metabolism, and radiation.
- 113 Intro to General, Organic, and Biochem Lab II** **1 Credit**
Prerequisite/Corequisite: 3150:112. Sequential. Lab course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry.
- 151 Principles of Chemistry I** **3 Credits**
Prerequisite: Placement in 3450:149 or higher or permission. Introduction to basic facts and principles of chemistry, including atomic and molecular structure, states of matter and thermodynamics. For the chemistry major, premedical student and most other science majors.
- 152 Principles of Chemistry I Lab** **1 Credit**
Prerequisite or corequisite: 3150:151. Lab course applying principles of thermodynamics, chemical analysis, and Lab practice.
- 153 Principles of Chemistry II** **3 Credits**
Prerequisite: 3150:151. Continuation of 151, including aqueous solution theory, chemical kinetics, equilibrium, electrochemistry and nuclear chemistry. For the chemistry major, premedical student and most other science majors.

154 Qualitative Analysis **2 Credits**
Prerequisite 3150:152; corequisite: 3150:153. Lab course applying principles of chemical equilibrium to inorganic qualitative analysis.

263,4 Organic Chemistry Lecture I and II **3 Credits Each**
Sequential. Prerequisite: 3150:153 (for 263); 3150:263 (for 264), or permission. Structure and reactions of organic compounds, mechanisms of reactions.

265,6 Organic Chemistry Lab I and II **2 Credits Each**
Sequential. Prerequisite: 3150:154; Pre/corequisites: 3150:263 (for 265); Prerequisite: 3150:265 (for 266). Lab experiments to develop techniques in organic chemistry and illustrate principles.

Classics

3200:

220 Intro to the Ancient World **3 Credits**
Prerequisite: 3400:210 or 3400:221. Introduction to the civilizations of the Near East, Greece, and Rome, their cultural influences upon each other and their legacy to Europe.

289 Mythology of Ancient Greece **3 Credits**
Myth, legend and folktale in ancient Greece, with attention to religion and the transmission of Greek myth to Rome and the West. No foreign language necessary.

Anthropology

3230:

150 Human Cultures **3 Credits**
This course examines what culture is, how human cultures vary and how they change. We then explore opportunities/conflicts presented by contemporary human culture issues.

151 Human Evolution **4 Credits**
Study of biological evolution of Homo Sapiens, including primate comparisons and cultural development. One-hour Lab using interactive computer programs, casts and Anthropology's cultural collection. Lab.

251 Human Diversity **3 Credits**
A study of the critical elements of world diversity, both cultural and biological. Cross-cultural comparisons of family, religion and politics in contemporary world. Multimedia and lecture.

Economics

3250:

200 Principles of Microeconomics **3 Credits**
Analysis of the behavior of the firm and household, and the market processes affecting price, output and resource allocation. No credit if 3250:244 already taken.

201 Principles of Macroeconomics **3 Credits**
Prerequisite: 3250:200. Study of the economic factors that affect price level, national income, employment, and economic growth. No credit if 3250:244 already taken.

244 Intro to Economic Analysis **3 Credits**
For engineering majors. Intensive introduction to analysis of modern industrial society and formulation of economic policy. Structure of economic theory and its relation to economic reality. No credit to a student who has completed 3250:200, 201.

English

3300:

110 English Composition I + Workshop **4 Credits**
Prerequisite: Placement. Extensive and varied experience in developing writing skills, with practice in expressive, reflective, and analytic forms of writing. Includes one credit, support-intensive workshop.

111 English Composition I **3 Credits**
Prerequisite: Placement. Extensive and varied experience in developing writing skills, with practice in expressive, reflective, and analytic forms of writing.

112 English Composition II **3 Credits**
Prerequisite: 3300:110 or 111 or 113 or 2020:121. Designed to develop skills in analyzing and writing persuasive arguments.

250 Classic and Contemporary Literature **3 Credits**
Prerequisites: 3300:111 and 112 or equivalents, and 3400:210, 221 or permission of the instructor. Close reading and analysis of fiction, poetry, and drama from the evolving canon of American, British, and World literature. This course fulfills the General Education humanities requirement.

252 Shakespeare and His World **3 Credits**
Prerequisites: 3300:111 and 112 or equivalents, and 3400:210 or 221. An introduction to the works of Shakespeare and their intellectual and social contexts. Each section "places" Shakespeare through compact readings of works by the playwright's contemporaries. This course fulfills the General Education humanities requirement.

275 Specialized Writing **3 Credits**
(May be repeated for different topics, with permission) Prerequisites: 3300:111 and 112, or equivalent, or permission. Principles and practice of style, structure and purpose in writing, with special applications to writing demands of a specific career area.

277 Intro to Poetry Writing **3 Credits**
Prerequisite: 3300:112, or equivalent, or permission. Practice in writing poems. Study of techniques in poetry using contemporary poems as models. Class discussion of student work. Individual conferences with instructor to direct student's reading and writing.

278 Intro to Fiction Writing **3 Credits**
Prerequisite: 3300:111 and 112, or their equivalents, or permission of the instructor. Practice in writing short stories. Study of various techniques in fiction using contemporary stories as models. Class discussion of student work. Individual conferences with instructor to direct student's reading and writing.

280 Poetry Appreciation **3 Credits**
Prerequisites: 3300:111 and 112, or equivalent, or permission. Close reading of a wide selection of British and American poems with emphasis on dramatic situation, description, tone, analogical language, theme and meaning.

281 Fiction Appreciation **3 Credits**
Prerequisites: 3300:111 and 112, or equivalent, and 3400:210 or 221. Close readings of modern master of short story and novel. Fulfills the general studies humanities requirement.

282 Drama Appreciation **3 Credits**
Prerequisites: 3300:111 and 112, or equivalent, or permission. Close reading and analysis of a variety of plays. (May be repeated for credit as a text of a film appreciation course).

283 Film Appreciation **3 Credits**
Prerequisites: 3300:111 and 112, or equivalent, or permission. Introduction to dramatic choices made by filmmakers in scripting, directing, editing and photographing narrative films, and qualities.

Geography and Planning

3350:

100 Intro to Geography **3 Credits**
Analysis of world patterns of population characteristics, economic activities, settlement features, land forms, climate as interrelated.

275 Geography of Cultural Diversity **2 Credits**
Evaluation of cultural elements unique to various geographical regions to explain why different people utilize resources differently, and how cultural diversity affects regional conflicts.

Geoscience

3370:

100 Earth Science **3 Credits**
Introduction to earth science for non-science majors. Survey of earth in relation to its physical composition, structure history, atmosphere, oceans, and relation to solar system and universe.

101 Introductory Physical Geology **4 Credits**
A study of the nature of the Earth, its materials, and the processes that continue to change it. Lab.

102 Introductory Historical Geology **4 Credits**
Prerequisite: 3370:101. Geologic history of earth, succession of major groups of plants and animals interpreted from rocks, fossils. Lab.

103 Natural Science: Geology **3 Credits**
Study of basic principles and investigative techniques in various fields of geology with emphasis on the relationship of geological processes to society.

121-140 Concepts of Geology **1 Credit Each**
A series of one-credit modules designed to introduce specific topics of science and the scientific method from the perspective of geologists.

121 Dinosaurs **1 Credit**
Introductory course exploring the geological occurrence, mode of fossilization, evolutionary development, habits, and sudden extinction of the largest known land vertebrates.

122 Mass Extinctions and Geology **1 Credit**
Catastrophic changes in plants and animals have occurred throughout Earth's history. The causes of these extinctions have sparked debate that has enlivened the scientific world.

125 Earthquakes: Why, Where and When? **1 Credit**
Causes and effects of earthquakes, geological settings for earthquakes, seismic measurements, mechanical response of rock to stress, earthquake prediction and precautionary measures.

126 Natural Disasters and Geology **1 Credit**
A study of the Earth's natural hazards including earthquakes, landslides, meteorites, and tsunamis.

127 The Ice Age and Ohio **1 Credit**
Introductory course covering the effects of the ice age on the geology, vegetation, fauna, and economy of Ohio.

128 Geology of Ohio **1 Credit**
Survey of Ohio's geologic setting and history, natural resources, landforms, and their significance in terms of human activity from early settlement to future economy.

129 Medical Geology **1 Credit**
Abundance and distribution of trace elements in surface and groundwater, soils and rocks. The effects of trace elements to health through dose-response relationships.

130 Geologic Record of Climate Change **1 Credit**
Examines evidence for natural climate changes in geologic past and evaluates the role of modern society in influencing future climate.

132 Gemstones and Precious Metals **1 Credit**
Introduction to minerals that form gemstones and precious metals. Topics to be covered include physical properties, geological occurrences and geographic locations of major deposits.

133 Caves **1 Credit**
Topics include: karst processes and the origin of caverns, carbonate depositional environments and the origin of limestones, and environmental problems associated with karst landscapes.

134 Hazardous and Nuclear Waste Disposal **1 Credit**
Disposition of hazardous waste in secured landfill site. Geological factors that determine the selection of low level and high level radioactive waste.

135 Geology of Energy Resources **1 Credit**
Topics include the origin of hydrocarbon and coal deposits, methods of petroleum exploration, global distribution of hydrocarbon resources.

137 Earth's Atmosphere and Weather **1 Credit**
Structure and composition of the atmosphere, earth's radiation budget, atmospheric moisture, clouds and precipitation, weather systems and storms, severe weather, Ohio weather.

138 Planetary Geology **1 Credit**
Solar system characteristics and formation, structure, composition and geology of terrestrial and Jovian planets and their satellites, comets, asteroids, meteorites and their relationship to earth.

140 Rocky Mountain National Parks **1 Credit**
Badlands, Yellowstone, Grand Canyon and other Rocky Mountain national parks will be used to illustrate basic principles of geology.

171 Intro to the Oceans **3 Credits**
Provides a basic introduction to the oceans. Topics include formation of the oceans, ocean circulation, waves and tides, marine animals, marine communities, and climate change.

200 Environmental Geology **3 Credits**
Analysis of geologic aspects of the human environment with emphasis on geologic hazards and environmental impact of society's demand for water, minerals, and energy.

201 Exercises in Environmental Geology I **1 Credit**
Prerequisite or corequisite: 3370:200. Recognition, evaluation of environmental problems related to geology through field, Lab exercises and demonstrations that apply concepts from 200.

203 Exercises in Environmental Geology II **1 Credit**
Recognition and evaluation of environmental problems related to geology. Continuation of 3370:201.

- 211 Intro to Environmental Science 3 Credits**
Interdisciplinary analysis of our relationship with nature and dependence upon the environment, with emphasis on evaluation of current environmental problems and rational solutions.

History

3400:

- 210 Humanities in the Western Tradition I 4 Credits**
Prerequisite: 32 credit hours completed; 3300:112 or 3300:114 or 2020:222 (or permission). Introduction to the human condition as manifested in the ideas, religions, visual arts and music of Western civilization from the ancient Greeks through the Renaissance. Cannot be used to meet major requirements in History.
- 221 Humanities in the World Since 1300 4 Credits**
Prerequisites: 32 credits and completion of 3300:112 or 3300:114 or 2020:222 (or permission). Introduction to the human condition as expressed in ideas, religions, visual arts, and music of the world since 1300. Cannot be used to meet major requirements in History.
- 250 United States History to 1877 4 credits**
Historical survey from the Age of Discovery and North American colonization through the creation of the United States to the Civil War and Reconstruction.
- 251 United States History Since 1877 4 Credits**
Survey of United States history from the end of Federal Reconstruction to the present.
- 292 Global Societies: Africa 3 Credits**
Prerequisites: Sophomore standing and no credit in both World Civilizations: Africa and Global Societies: Africa. This course surveys major social, economic, political, and cultural transformations in Africa, and explores interconnected global histories in one regional context.
- 294 Global Societies: India 3 Credits**
Prerequisites: Sophomore standing and no credit in World Civilizations: India and Global Societies: India. This course surveys major social, economic, political, and cultural transformations in India, and explores interconnected global histories in one regional context.
- 295 Global Societies: Japan 3 Credits**
Prerequisites: Sophomore standing and no credit in World Civilizations: Japan and Global Societies: Japan. This course surveys major social, economic, political, and cultural transformations in Japan, and explores interconnected global histories in one regional context.
- 296 Global Societies: Latin America 3 Credits**
Prerequisites: Sophomore standing and no credit in both World Civilizations: Latin America and Global Societies: Latin America. This course surveys major social, economic, political, and cultural transformations in Latin America, and explores interconnected global histories in one regional context.
- 296 Global Societies: Middle East 3 Credits**
Prerequisites: Sophomore standing and no credit in both World Civilizations: Middle East and Global Societies: Middle East. This course surveys major social, economic, political, and cultural transformations in the Middle East, and explores interconnected global histories in one regional context.

Mathematics

3450:

- 135 Mathematics for Everyday Life 3 Credits**
Prerequisite: Completion of 2010:052 with a grade of C- or better or placement test. Contemporary applications of mathematics for the non-science major to develop skills in logical thinking and reading technical material. Topics include voting, apportionment, scheduling, patterns, networks.
- 140 Fundamentals of Math for Primary Educators 3 Credits**
Prerequisites: 3450:100 or 3470:250 with a grade of C- or better, or placement test, Corequisite: 5100:200. A problem-solving and inquiry-based approach to number systems, bases, operations, properties, relationships, algorithms of real numbers, patterns and algebra.
- 145 Algebra for Calculus 4 Credits**
Prerequisite: Placement test or 2010:085 with a grade of C or better, or permission. Real numbers, equations and inequalities, linear and quadratic functions. Exponential and logarithmic functions. Systems of equations, matrices, determinants. Permutations and computations
- 149 Precalculus Mathematics 4 Credits**
Prerequisite: 3450:145 with a grade of C- or better or placement. Functions, polynomial functions, complex numbers, exponential and logarithmic functions, systems of equations, trigonometric functions, mathematical induction, sequences, and binomial theorem.
- 208 Intro to Discrete Mathematics 4 Credits**
Prerequisites: Completion of 145 or 149 with a grade of C- or better or placement. A foundation course in discrete mathematics with applications. Topics include sets, number systems, Boolean Algebra, logic relations, functions, recursion, matrices, induction, graphs, and trees.
- 210 Calculus with Business Applications 3 Credits**
Prerequisite: Mathematics placement test or 3450:141 or 145 with a grade of C- or better. Review of functions, derivatives of functions, extrema and concavity, optimization, logarithmic and exponential functions, extrema for multivariate functions. Graphing calculator required. For business majors only.
- 221 Analytic Geometry – Calculus I 4 Credits**
Prerequisite: 3450:149 with a grade of C- or better, or placement. Limits; continuity; rates of change; derivatives and applications – algebraic, trigonometric, transcendental functions; curve sketchings, antiderivatives and integration, areas.
- 222 Analytic Geometry – Calculus II 4 Credits**
Prerequisite: 3450:221 with a grade of C- or better. Methods and applications of integration; sequences, series and power series; Taylor polynomials and Taylor series; parametric and polar coordinates.
- 223 Analytic Geometry – Calculus III 4 Credits**
Prerequisite: 3450:222 with a grade of C- or better. Vector algebra, cylindrical and spherical coordinates, vector-valued functions, curvature, functions of several variables, limit, continuity, partial derivatives, differentials, directional derivatives, maxima and minima, multiple integrals, Divergence Theorem.
- 240 Mathematical Foundations for Early Childhood Educators 3 Credits**
Prerequisites: 3450:140 with a grade of C- or better. A problem-solving and inquiry-based approach to functions and algebra, coordinate and Euclidean geometry, and elementary data analysis.

289 Selected Topics in Mathematics 1-3 Credits

Prerequisite: permission. Selected topics of interest in mathematics.

312 Linear Algebra 3 Credits

Prerequisite: Completion of 223 with a grade of C- or better or permission of instructor. Study of vector spaces, linear transformation, matrices, determinants, inner products, the eigenvalue problem, quadratic forms and canonical forms.

335 Intro to Ordinary Differential Equations 3 Credits

Prerequisite: 3450:223 with a grade of C- or better. Basic techniques for solving ODEs and systems of ODEs. Analysis of models involving differential equations of first order and simple equations of second order.

Computer Science

3460:

101 Essentials of Computer Science 3 Credits

Explore major topics in Computer Science - computing systems, data representation, hardware, programming topics, and important applications such as networks, robotics, databases, and gaming.

209 Computer Science I 4 Credits

Prerequisite: 3450:145 or 149 with a grade of C- or better, or equivalent. An introduction to problem-solving methods and algorithm development. Programming in a high-level language including how to design, code, debug and document programs using techniques of good programming style.

210 Computer Science II 4 Credits

Prerequisites: 3460:209 and 3450:208 with a grade of C- or better. Dynamic memory allocation methods, elementary data structures, internal representations, and associated algorithms. Topics include lists, stacks, queues, trees, and sorting methods.

Statistics

3470:

250 Statistics for Everyday Life 4 Credits

Prerequisite: Placement. Conceptual approach to the basic ideas and reasoning of statistics. Topics include descriptive statistics, probability (uncertainty), statistical inference (estimation and hypothesis testing). Computer applications Lab.

260 Basic Statistics 3 Credits

Prerequisite: Mathematics placement test or 3450:100. Applied approach to data description and statistical inference (hypothesis testing, estimation). Analysis of ratios, rates, and proportions. Computer applications Lab.

261 Introductory Statistics I 2 Credits

Prerequisite: Mathematics Placement Test. Descriptive statistics, tabular and graphical data displays, probability, probability distributions. Introduction to statistical inference (hypothesis testing, estimation), one-sample parametric and nonparametric methods. Computer applications.

262 Introductory Statistics II 2 Credits

Prerequisite: 261 or equivalent. Parametric and nonparametric methods of statistical inference for paired data and two-sample problems, one-way ANOVA, simpler linear regression and correlation. Computer applications.

French

3520:

101,2 Beginning French I and II 4 Credits Each

Sequential. Prerequisite for 102: 101 or equivalent. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations, through culturally authentic media and texts.

201,2 Intermediate French I and II 3 Credits Each

Sequential. Prerequisite for 201: 102 or equivalent. Prerequisite for 202: 201 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression.

German

3530:

101,2 Beginning German I and II 4 Credits Each

Sequential. Prerequisite for 102: 101 or equivalent. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations through culturally authentic media and texts.

201,2 Intermediate German I and II 3 Credits Each

Sequential. Prerequisite: 3530:102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.

Spanish

3580:

101,2 Beginning Spanish I and II 4 Credits Each

Sequential. Prerequisite for 102: 101 or equivalent. Acquisition of basic reading, speaking, writing and listening comprehension skills, with emphasis on development of self-expression in everyday situations through culturally authentic media and texts.

201,2 Intermediate Spanish I and II 3 Credits Each

Sequential. Prerequisite: 3580:102 or equivalent. Continuing acquisition of competence in reading, writing, speaking, and listening comprehension through use of culturally authentic materials, with emphasis on developing accuracy and self-expression in a wide range of situations.

Philosophy

3600:

101 Intro to Philosophy 3 Credits

Introduction to philosophic problems and attitudes through acquaintance with the thoughts of some leading thinkers of Western tradition.

120 Intro to Ethics 3 Credits

Introduction to problems of moral conduct through readings from the tradition and class discussion; nature of "good," "right," "ought" and "freedom".

- 125 Theory and Evidence** **3 Credits**
An investigation of the concept of evidence and the criteria for the evaluation of theories in various areas of study including the natural sciences, the social sciences and philosophy. The role of scientific information in the formation and justification of value judgements.
- 150 Critical Thinking** **3 Credits**
Examination of good and bad reasoning patterns. Topics may include rational and persuasive arguments, deductive and inductive inference, causal and basic statistical inference, logical fallacies, and moral arguments.
- 170 Intro to Logic** **3 Credits**
Introduction to logic and critical thinking. Includes such topics as meaning, informal fallacies, propositional logic, predicate and syllogistic logic and nature of induction.

Physics

3650:

- 130 Descriptive Astronomy** **4 Credits**
Qualitative introduction to astronomy, intended primarily as a first science course for non-science majors. Includes Lab and observational activities.
- 133 Music, Sound and Physics** **4 Credits**
Qualitative introduction to the physics of sound, its properties, perception, and reproduction, including acoustical principles of musical instruments. Lab and observational activities included.
- 137 Light** **4 Credits**
Introductory, qualitative course dealing with the nature of light and the interaction of light with various materials to produce common visual effects. Lab activities included that provide experiences in scientific investigation.
- 261 Physics for the Life Sciences I** **4 Credits**
Prerequisites: High school algebra, trigonometry or 3450:149 as corequisite or permission. Introductory course for professional work in biology and health professions and services. Emphasizes life science applications. Mechanics: laws of motion, force, torque, work, energy, power, properties of matter, gases, liquids, solids, fluid mechanics. Lab.
- 262 Physics for the Life Sciences II** **4 Credits**
Prerequisite: 3650:261. Laws of thermodynamics, kinetic theory. Wave phenomena, sound, light, optics, electricity and magnetism, atomic and nuclear physics, radioactivity. Lab.
- 267,8 Life Sciences Physics Comp I and II** **1 Credit Each**
Corequisite: 3650:261 (with 267); 3650:262 (with 268). Optional companion courses to 261,2 provides additional computational experience in applications of physics to life sciences, emphasizing use of algebra and trigonometry. Particularly recommended for student with modest mathematical preparation.
- 291 Elementary Classical Physics I** **4 Credits**
Prerequisite: 3450:221 with a grade of C- or better. Introductory physics for science and engineering. Classical kinematics and dynamics as related to contemporary physics, oscillations, thermodynamics, vectors and some calculus as needed. Lab.
- 292 Elementary Classical Physics II** **4 Credits**
Prerequisite: 3650:291 with a grade of C- or better. Basic laws of electromagnetism, fluid mechanics, mechanical and electromagnetic waves, and wave phenomena, interference and diffraction, coherence, geometrical and physical optics. Lab.

- 293,4 Physics Computations I and II** **1 Credit Each**
Corequisite: 291 (with 293); 292 (with 294). Optional companion courses to 291,2 provides experience in problem solving, and elaborates application of calculus to simple physics phenomena. Particularly recommended for a freshman or for a student with modest preparation in mathematics or physical sciences.

Political Science

3700:

- 100 Government and Politics in the United States** **3 Credits**
Examination of the American political system with emphasis on fundamental principles, ideas, institutions and processes of modern government.
- 150 World Politics and Governments** **3 Credits**
Introduction to international politics and an examination of the governments and foreign policies of selected states from a comparative perspective.
- 210 State, Local Government, Politics** **3 Credits**
Examination of institutions, processes and intergovernmental relations at state and local levels.

Psychology

3750:

- 100 Intro to Psychology** **3 Credits**
Introduction to scientific study of behavior, survey of physiological basis of behavior, sensation and perception, development, learning and cognition, personality, social interaction and other selected topics.
- 105 Professional and Career Issues in Psychology** **1 Credit**
Corequisite: 3750:100. An overview of the field of psychology including educational requirements, career opportunities, and professional issues for students considering a psychology major.
- 230 Developmental Psychology** **4 Credits**
Prerequisite: 3750:100. Determinants and nature of behavioral changes from conception to death.

Child and Family Development

3760:

- 265 Child Development** **3 Credits**
Physical, cognitive, language, social, emotional, and personality development of child from prenatal through age eight. Observation of children in early childhood education settings.
- 270 Theory and Guidance of Play** **3 Credits**
Prerequisite: 7400:265. Theory and guidance of play as primary vehicle and indicator of physical, intellectual, social, emotional development and learning of children from birth to kindergarten.
- 280 Early Childhood Curriculum Methods** **3 Credits**
Prerequisite: 7400:265, 270. Planning, presenting, evaluating creative activities in art, music, movement, language arts, logico-mathematics and science. Space, time, materials and adult-child interactions are emphasized.

Criminal Justice Technology

3800:

- 100 Intro to Criminal Justice 3 Credits**
 Overview of criminal justice system, its history, development and evolution within the United States including subsystems of police, courts, corrections. Constitutional limitations, current criminal justice practices, human relations, professionalism, and prevention.

Sociology

3850:

- 100 Intro to Sociology 3 Credits**
 Basic terminology, concepts and approaches in sociology, including introduction to analysis of social and methods of presentation groups and application of sociological concepts to the understanding of social systems. Required of majors.
- 330 Criminology 3 Credits**
 Prerequisite: 100 or permission. Major focus on interrelationships and analysis of crimes, criminals, criminal justice systems and society, lecture.

General Engineering

4100:

- 101 Tools for Engineering 3 Credits**
 Corequisite: 3450:221. Introduction to engineering. Free hand, engineering, and CAD drawing. Introduction to computer programming, computer applications including word processing, spreadsheets, data base. Introduction to engineering economics. Required for Chemical, Civil, and Electrical Engineering majors.

Civil Engineering

4300:

- 201 Statics 3 Credits**
 Corequisites: 3450:222 and 3650:291. Forces, resultants, couples, equilibrium of force systems, distributed forces, centers of gravity, analysis of simple structures, moments of inertia, kinematics.
- 202 Intro to the Mechanics of Solids 3 Credits**
 Prerequisite: 4300:201. Axial force, bending moment diagrams, axial stress and deformation, stress-strain diagrams, torsion, flexural stress, flexural shearing stress, compound stress, indeterminate beams, columns.

Electrical Engineering

4400:

- 230 Circuits I Lab 1 Credit**
 Corequisite: 4400:231. Computation, computer-aided circuit analysis, circuit theorem confirmation, report writing to include data analysis and reduction, introduction to electrical measurements.
- 231 Circuits I 3 Credits**
 Corequisites: 4400:230, 3450:223, 3650:292. DC and AC linear electric circuit analysis. Operational amplifier circuits. Loop and nodal analyses. Network theorems. Phasor techniques, steady-state AC power, three-phase systems.

Mechanical Engineering

4600:

- 165 Tools for Mechanical Engineering 3 Credits**
 Corequisite: 3450:149. Personal computer DOS system. Word processing, spreadsheet, computer-aided drafting, math calculating package, mechanical graphics.
- 203 Dynamics 3 Credits**
 Prerequisite: 3450:222; 3650:291; 4300:201. Kinematics and kinetics of particles and rigid bodies. Principles of work, energy, momentum and impulse.

Educational Foundations and Leadership

5100:

- 200 Intro to Education 3 Credits (10 Field Hours)**
 Prerequisite: 13-15 semester hours of specific General Education courses; FBI/BCI background checks. Introduction to the teaching profession designed to explore the purposes of schools in society and what is required to be an effective teacher today. This course will include 10 field hours observation in an urban setting.
- 220 Educational Psychology 3 Credits**
 Prerequisite: 13-15 semester hours of specific General Education courses; 5100:200 (may be taken as a prerequisite or corequisite); FBI/BCI background checks. Focuses on the developmental influences and characteristics of learners, and psychological principles pertaining to teaching and learning processes, motivation and self-regulation in learners.

Elementary Education

5200:

- 215 The Child, The Family, and The School 3 Credits (10 Clinical/Field Hours)**
 Prerequisite: 5100:220, 5610:225. The purpose of this course is to learn about why we create reciprocal working relationships with parents and methods of creating these types of relationships.

Curriculum and Instruction

5500:

- 240 Foundation of Literacy 3 Credits**
 Focus on the building blocks of teaching children how to read with an emphasis on literacy development and an emphasis on research-based components of reading instruction.
- 241 Word Study, Phonics and Spelling 3 Credits**
 Prerequisite: 5500:240. Candidates will explore a variety of genres, types of texts, resources and instructional strategies to maximize students' comprehension, fluency and vocabulary growth.
- 286 Teaching Multiple Texts 3 Credits**
 Prerequisite: 5500:245. Survey of children's literature through print and non-print media. Genres will be explored through a variety of technologies, including computer software and film.

Physical Education

5540:

120-90 Physical Education/Wellness $\frac{1}{2}$ Credit Each

Participation in individual and group sports. Individual can acquire knowledge and skill in activities that may be of value and satisfaction throughout life. One-half credit courses are offered one-half semester.

- 120 Archery
- 121 Badminton
- 122 Basketball
- 123 Bowling
- 126 Fitness And Wellness**
- 127 Golf**
- 132 Karate**
- 135 Racquetball
- 139 Self-Defense**
- 150 Tennis (Beginning)
- 151 Volleyball

Physical Education

5550:

- 100 **Intro to Sports Studies** **3 Credits**
Introduction to sports studies explores the history, philosophy, and principles of today's sport industry within a practical, career-oriented framework.
- 150 **Concepts in Health and Fitness** **3 Credits**
Introduction to basic health and fitness concepts and related topics. Attention will be given to individual fitness programs emphasizing such topics as aerobic and anaerobic exercises, nutrition, diet, stress, and assessment methods and procedures.
- 160 **Intro to Coaching** **3 Credits**
An introduction to the coaching profession. Discussion of the important and tactical elements of coaching athletes.
- 201 **Kinesiology** **3 Credits (8 Clinical Hours)**
Prerequisites: 3100:200/201 or 3100:202/203.
Application of basic principles of anatomy and mechanics to human movement. Three hours lecture with practical application and demonstrations.
- 211 **First Aid and CPR** **2 Credits (15 Clinical Hours)**
Based on American Red Cross standards for first aid and cardiopulmonary resuscitation. Instruction and skills practice for sudden illness/emergencies is provided. Two hours lecture.
- 212 **First Aid and CPR for the Professional Rescuer** **2 Credits**
Prerequisite: permission of instructor. First aid and cardiopulmonary resuscitation for health care professionals based upon American Red Cross standards. Instruction and skills practice for sudden illness/emergencies is provided.
- 220 **Health Promotion and Behavior Change** **3 Credits**
Prerequisite: 5550:150. Course will translate theories of behavioral science for health professionals who are involved in planning, developing, implementing or evaluating physical activity programs.
- 302 **Physiology of Exercise** **3 Credits (30 Clinical Hours)**
Prerequisites: 3100:200/201 or 3100:202/203. A course designed to study the physiological effects of exercise relative to physical education activities, athletics and athletic training. Two hours lecture, two hours Lab.

- 330 **Exercise and Weight Control** **3 Credits**
Prerequisite: 5550:302. Course will focus on role of exercise in regard to its positive influences on weight control. The hazards and implications of being overweight are studied

- 352 **Strength and Conditioning Fundamentals** **3 Credits**
Prerequisite: 3100:200, 201, 202, 203. This course will address CAAHEP competencies and proficiency in the area of strength and conditioning of physically active individuals.

- 355 **Exercise in Special Populations** **3 Credits**
Prerequisites: 5550:302. Advanced course in clinical exercise testing and prescription relative to disease of the cardiovascular, pulmonary, metabolic, musculoskeletal, neuromuscular, and immunologic systems.

Health Education

5570:

- 101 **Personal Health** **2 Credits (5 Clinical Hours)**
Application of current principles and facts pertaining to healthful, effective living. Personal health problems and needs of a student.
- 202 **Stress, Lifestyle and Your Health** **2 Credits (5 Clinical Hours)**
This course will provide knowledge and attitudes about the relationship between stress and physiological and psychological illness and disease as well as how to prevent and manage stress in daily life activities.

Special Education

5610:

- 225 **Intro to Exceptionalities** **3 Credits**
Prerequisite: 13-15 semester hours in specific General Education courses with a 'C' or better; 5100:200 (may be taken as prerequisite or corequisite); FBI/BCI background checks. Survey course covering the identification, developmental characteristics and intervention strategies for children and youth with exceptionalities across educational and community settings.
- 439 **Collaboration with Families and Professionals in Early Childhood** **3 Credits**
This course prepares early childhood professionals for engaging in collaborative home/school consultation and teamwork in serving the educational needs of young children.
- 450 **Special Education Programming: Early Childhood** **3 Credits (20 Field Hours)**
Prerequisite: 5610:225. Developmental patterns of young children with disabilities and developmentally/exceptionality appropriate practices with respect to programming and adaptations.
- 459 **Collaboration and Consultation in Schools and Community** **3 Credits**
Prerequisite: 5610:225. Provides professional educators/intervention specialists with skills in collaboration and consultation for working with parents of exceptional individuals and other professionals within school/community settings.
- 467 **Management Strategies in Special Education** **3 Credits**
Prerequisite: 5610:225. Content emphasizing the development of application strategies with a variety of behavior management models for mediation of behaviors with exceptional individuals.

General Business

6100:

- 101 Business Issues in a Connected World 3 Credits**
An introductory course that examines the 'forces' that are changing how business will be conducted in the 21st century, the 'factors' that determine the success of firms and the impact of both on individuals as consumers and professionals.

Accountancy

6200:

- 201 Accounting Principles I 3 Credits**
Prerequisite: 24 college credits completed. Introduction to accounting principles including accounting for revenues, expenses, assets, liabilities, equity, accounting standards and financial statements.
- 202 Accounting Principles II 3 Credits**
Prerequisite: 6200:201. Informational needs of management. Analysis of cash flow and financial statements. Study of product costing systems, standard costs, planning, budgeting, and control systems, overhead cost allocation, cost-volume-profit analysis, relevant costing, and capital budgeting.
- 250 Spreadsheet Modeling and Decision Analysis 3 Credits**
Prerequisite: Spreadsheet proficiency. In-depth study of spreadsheet applications and databases to support decision-making and problem-solving in business and accounting.

Entrepreneurship

6300:

- 201 Intro to Entrepreneurship 3 Credits**
Students are exposed to career options in entrepreneurship where they learn skills related to starting or buying a small business, working for a fast growth business or corporation, family business, and franchising. Open to all university students.

Finance

6400:

- 200 Foundations of Personal Finance 3 Credits**
Prerequisites: 3250:200 or 244; 3450:145. Explores application of finance concepts in personal finance with emphasis on the personal financial planning process.
- 220 The Legal and Social Environment of Business 3 Credits**
Prerequisite: Completion of 32 credits. Explores the legal and social environment in which modern business must function. The legal system, public and private law, and contemporary social issues are addressed.

Marketing

6600:

- 205 Marketing Principles 3 Credits**
Prerequisites: 24 hours of college credit. A general survey of marketing activities including analysis of markets, competition, consumer behavior, information systems, and the assessment of product, price, distribution, and promotion strategies.

Art

7100:

- 100 Survey of History of Art I 3 Credits**
Introductory survey of world art from prehistory to 1250 C.E.
- 131 Foundation Drawing 3 Credits**
Introduction to drawing materials and techniques with an emphasis on observation, representation, and formal principles of composition and design.
- 210 Visual Arts Awareness 3 Credits**
Prerequisite: 3400:210. Lecture course providing appreciation and understanding of various types/periods with emphasis on topics and influences on societies, rather than on historical sequences.
- 273 Intro to Digital Photography 3 Credits**
A study of photography through lecture, demonstration and studio work. An exploration and enrichment opportunity for the non-art major.

Music

7500:

- 101 Intro to Music Theory 2 Credits**
Prerequisite: Undergraduate Theory Placement Examination or permission of Wayne College Dean. Designed for prospective music major to correct deficiencies in theory background as determined through department placement testing. Includes classroom instruction and computer-assisted instruction in basic notation, scales, meter, key signature, ear training and basic familiarity with the keyboard. Credit not applicable toward music degree.
- 201 Exploring Music: Bach to Rock 3 Credits**
Prerequisite: 3400:210 or permission of Wayne College Dean. This course provides non-music majors with the skills to evaluate a wide range of music

Communication

7600:

- 101 Intro to Communication 3 Credits**
Survey of the field of communication. Topics will focus on the history, as well as the theories, constructs, and career opportunities of all sub disciplines.
- 105 Intro to Public Speaking 3 Credits**
Introduction to principles and practice of speaking by reading examples of speeches, studying techniques and methods employed and applying them in a variety of speaking situations.
- 106 Effective Oral Communication 3 Credits**
Principles of communication in speaker-audience, group and informational settings and application of the principles in speeches, group discussions and other oral and written assignments. Cannot be used as credit toward a major in communication.
- 235 Interpersonal Communication 3 Credits**
Theory and practice in interpersonal communication concepts and principles. Special topics in communication apprehension, assertive communication, communication dyads and triads and transactional communication.

- 245 Argumentation 3 Credits**
The study of the process of developing, presenting and defending inferences and arguments in oral communication setting. Includes study and practice of evidence, reasoning, case construction, refutation and rebuttal.
- 325 Intercultural Communication 3 Credits**
Prerequisite: Admitted to a four year degree granting college except the College of Applied Science and Technology. Study of effect on oral communication process of existence of cultural barriers. Includes study of verbal and nonverbal communication in transracial, informal international and diplomatic communicative settings.
- 344 Small Group Communication 3 Credits**
Prerequisite: junior or senior status. This course explores the dynamics of small group communication. Students will learn how to become effective members of groups by practicing course concepts and theories in assignments.
- 345 Advanced Presentational Communication 3 Credits**
Prerequisite: 7600:105 or 106 and 245. Continued development of audience analysis, research, style, and delivery to improve oral communication skills for a variety of civic and organizational purposes.

Social Work

7750:

- 270 Diversity and Social Work 3 Credits**
Introductory course explores issues related to poverty and minority issues as they relate to at-risk populations.
- 275 Intro to Social Work Practice 3 Credits**
Introduces students to concepts, settings, and vulnerable populations related to the field of social work. Emphasis placed on purposes, values, ethics, knowledge, and skills that characterize the professional social worker. Provides an overview of theoretical and practical knowledge about the social work profession needed for entry levels of practice in social work.
- 276 Intro to Social Welfare 3 Credits**
Survey of field of social welfare; place of social work profession within human services institutions of United States. Introduction to basic concepts relating social welfare institutions and social work to society.
- 427 Human Behavior and Social Environment I 3 Credits**
Social work perspective on human development across the life cycle. Human diversity approach consistent with the needs of social work students preparing for practice.

Nutrition and Dietetics

7760:

- 133 Nutrition Fundamentals 3 Credits**
Study of basic nutrition concepts, contemporary issues, controversies; emphasis on macro/micro nutrient requirements for healthy individuals; analysis of intake and energy balance.
- 316 Science of Nutrition 4 Credits**
Prerequisites: 3100:202, 3150:113, or instructor permission. In-depth characterization of composition, metabolism, physiological functions and interrelationships of nutrients. Analysis and interpretation of current literature; assessment of nutrition counseling techniques.

Nursing

8200:

- 100 Intro to Nursing 1 Credit**
Introduces student to influences of past, present, and future political, legal, social, and cultural processes on nursing profession and the roles of the nurses.



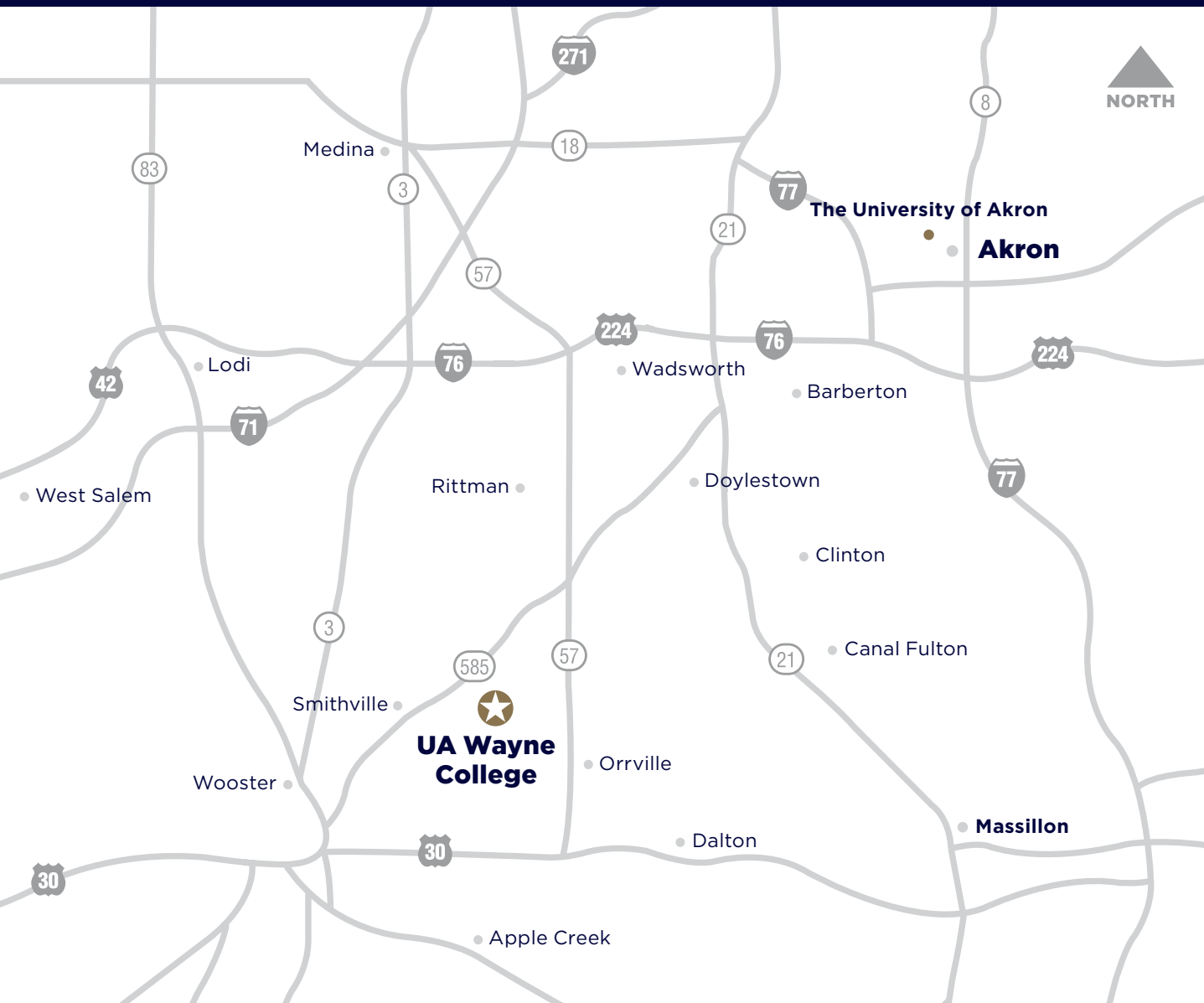
The University of Akron
Wayne College

Office of Admissions

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Contact our Office of Admissions at **1-800-221-8308 ext. 8900**
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The University of Akron Wayne College is 10 miles from the downtown Wooster area,
13 miles from Wadsworth and 28 miles from The University of Akron.