

The
University
of Akron

Wayne College



Undergraduate Degrees

2011-2012

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



Section ONE

Academic Programs

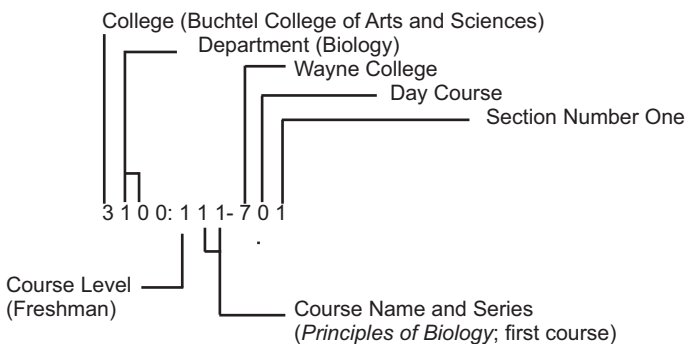
COURSE NUMBERING SYSTEM

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.

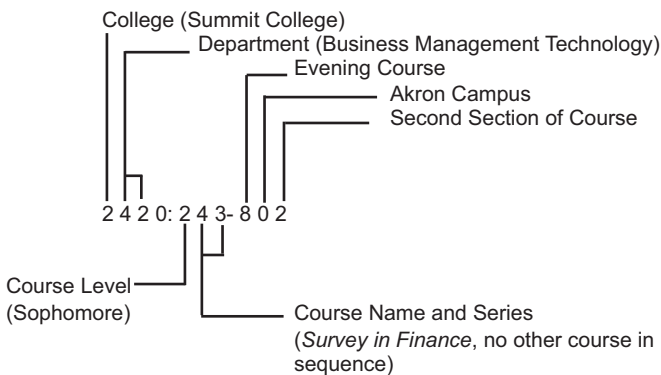
After the colon, the first digit in the second set represents the level of the course, e.g., 1 = freshman, 2 = sophomore, 3 = junior and 4 = senior. Courses with a beginning course digit of 5 or above may only be taken by graduate students. The last two digits in the second set of numbers refer to the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

EXAMPLE I



EXAMPLE II



ASSOCIATE DEGREES

Wayne College affords the individual of any age or background the opportunity to continue education without pursuing a bachelor's degree. First, the college offers a program of general education designed to equip the student for intelligent living and to meet individual needs and personal goals. (Please refer to the "General Education/Transfer Program" for further details on the Associate of Arts and Associate of Science program.)

Second, the college prepares the student for entry-level positions or advancement in selected paraprofessional and technical careers in business, industry and public service organizations.

Finally, Wayne College, as a regional campus of The University of Akron, supports, where feasible, the broad range of career education programs of the University's Summit College.

Associate degree programs typically require two years of full-time study or about three and one-half years of part-time study and lead to the degrees of Associate of Arts, Associate of Science, Associate of Technical Studies, Associate of Applied Business and Associate of Applied Science (carrying the designation of the program). A student may complete a program of study while working full or part time. Moreover, since the associate degree signifies completion of an accredited program of collegiate coursework, credits earned at Wayne College may be applied at a later date toward a bachelor's degree. However, acceptance and evaluation of credits lie exclusively within the jurisdiction of the college/university to which the student wishes to transfer.

WAYNE COLLEGE PROGRAMS

The following associate degree programs are available at Wayne College. The structure of these programs may differ significantly from similar programs within Summit College 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 adviser at Wayne College for further details.

Associate of Technical Studies

The Associate of Technical Studies (ATS) 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 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 is administered through the Office of the Dean and coordinated by the Associate Dean of Instruction. Interested students must complete a formal Associate of Technical Studies 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 of Technical Studies 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:

- Completion of an Associate of Technical Studies 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 of Technical Studies 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.

2260: Social Services Technology

This program prepares graduates for preprofessional employment in social work as social work assistants. The curriculum combines learning experiences in the classroom with field work in human service organizations. While the associate to bachelor's degree option can lead to immediate employment upon completion, it also provides the first two years of full-time coursework toward a bachelor's degree in social work at The University of Akron School of Social Work.

Associate to Bachelor's Degree Option with Bachelor of Arts/Social Work

		Credits
2260:121	Social Service Techniques I	3
2260:122	Social Service Techniques II	3
2260:150	Introduction to Gerontological Services	3
2260:171	Career Issues in Social Services I	1
2260:172	Career Issues in Social Services II	1
2260:223	Social Service Techniques III	3
2260:260	Introduction to Addiction	3
2260:273	Career Issues in Social Services III	1
2260:285	Social Services Practicum*	2
2260:293	Field Work Orientation	1
2260:294	Field Work Evaluation	1
3100:103	Natural Science-Biology	4
3300:111	English Composition I	4
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
7750:270	Poverty and Minority Issues	3
7750:276	Introduction to Social Welfare	3
	Economics requirement	3
	Human Development requirement	3
	Natural Science requirement	4
	Physical Education/Wellness	1
	Social Services elective	4
		68

* Students are required two semesters of practicum experience. Those who are pursuing/have completed the Gerontological Social Services or Therapeutic Activities certificate can use 2260:287 Practicum in Therapeutic Activities and Long-term Care (1) or 2260:289 Practicum in Gerontological Social Services (1) as one of their required practicum experiences.

2420: Business Management Technology

Accounting Option

The Accounting Option provides paraprofessional training for a variety of accounting positions. Graduates will be prepared for immediate employment in the areas of financial and managerial accounting, sales, procurement, credit and collections, business research, data compilation and reporting.

Students entering the program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

2440:105	Introduction to Computers and Application Software	3
2540:290	ST: Keyboarding for Skill Development	1

Program Requirements

2040:240	Human Relations	3
	or	
3750:100	Introduction to Psychology	3
2040:247	Survey of Basic Economics	3
	or	
3250:200	Principles of Microeconomics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
	or	
6100:101	Global Business Concepts and Practices	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:213	Essentials of Management Accounting	3
2420:214	Essentials of Intermediate Accounting	3
2420:216	Survey of Cost Accounting	3
2420:217	Survey of Taxation	4

		<i>Credits</i>
2420:218	Automated Bookkeeping	2
2420:245	Business Management Accounting Internship	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law	3
	or	
6400:220	The Legal and Social Environment of Business	3
2440:125	Spreadsheet Software	2
2520:101	Essentials of Marketing Technology	3
2540:263	Professional Communication and Presentations	3
	or	
7600:106	Effective Oral Communication	3
2540:289	Career Development for Business Professionals	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3600:120	Introduction to Ethics	3
6200:250	Spreadsheet Modeling and Decision Analysis	3
		69

		<i>Credits</i>
2440:105	Introduction to Computers and Application Software	3
2540:290	ST: Keyboarding for Skill Development	1
	Program Requirements (A grade of "C" or higher is required in all 2530: department courses.)	
2040:240	Human Relations	3
	or	
3750:100	Introduction to Psychology	3
2420:103	Essentials of Management Technology	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2440:125	Spreadsheet Software	2
2530:240	Medical Coding I-Diagnostic	3
2530:241	Health Information Management	3
2530:242	Medical Office Administration	3
2530:243	Medical Coding II-Procedural	3
2530:244	Medical Insurance Billing	3
2530:255	Health Care Office Management & Medicolegal Issues	3
2530:257	Health Care Office Finance	2
2530:259	Internship Orientation	1
2530:260	Health Care Office Management Internship	3
2530:284	Medical Office Techniques	2
2540:119	Business English	3
2540:289	Career Development for Business Professionals	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
3600:101	Introduction to Philosophy	3
	or	
3600:120	Introduction to Ethics	3
5550:211	First Aid & CPR	2
7600:106	Effective Oral Communication	3
	or	
2540:263	Professional Communication and Presentations	3
		67

General Business Option

The General Business Option provides training in varied business activities in preparation for an entry-level management position in business, industry, government and nonprofit organizations or as a self-employed manager.

Students entering the program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

2440:105	Introduction to Computers and Application Software	3
2540:290	ST: Keyboarding for Skill Development	1

Program Requirements

2040:240	Human Relations	3
	or	
3750:100	Introduction to Psychology	3
2040:247	Survey of Basic Economics	3
	or	
3250:200	Principles of Microeconomics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
	or	
6100:101	Global Business Concepts and Practices	3
2420:170	Applied Mathematics for Business	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:218	Automated Bookkeeping	2
2420:243	Survey in Finance	3
2420:246	Business Management Internship	3
	or	
2420:250	Problems in Business Management	3
2420:280	Essentials of Business Law	3
	or	
6400:220	The Legal and Social Environment of Business	3
2440:125	Spreadsheet Software	2
2520:101	Essentials of Marketing Technology	3
2540:263	Professional Communication and Presentations	3
	or	
7600:106	Effective Oral Communication	3
2540:289	Career Development for Business Professionals	3
2880:232	Labor Management Relations	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3600:120	Introduction to Ethics	3
6200:250	Spreadsheet Modeling and Decision Analysis	3
6300:201	Introduction to Entrepreneurship	3
		65

2530: Health Care Office Management

The Health Care Office Management program is designed to meet the needs of current health care office employees and others to develop skills to prepare for technical, supervisory, or management positions in the health care field. Graduates will be trained for the daily operation and management of the health care practice. The responsibilities include all administrative, financial, human resources, clerical and supply functions, with a special emphasis on medical coding, insurance billing and financial analysis.

Students entering the program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

2540: Computer and Business Technology

Through the study of office and technology skills, this program will prepare graduates for careers as office professionals. Students choose from program options that prepare them for computer support, networking support and/or office management positions. Students may choose to transfer credits from the associate degree program into a bachelor's degree program.

Students entering the program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

2440:105	Introduction to Computers and Application Software	3
2540:290	ST: Keyboarding for Skill Development	1

Application Software Option

2040:240	Human Relations	3
	or	
3750:100	Introduction to Psychology	3
2040:256	Diversity in American Society	2
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
	or	
6200:201	Accounting Principles I	3
2440:125	Spreadsheet Software	2
2440:140	Internet Tools	3
2440:141	Web Site Administration	3
2440:145	Introduction to Unix/Linux	3
2440:245	Introduction to Databases for Micros	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:123	Microsoft Outlook	2
2540:136	Speech Recognition Technology	2
2540:138	Project Management	2
2540:143	Microsoft Word: Beginning	2
2540:144	Microsoft Word: Advanced	2
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:263	Professional Communication and Presentations	3
2540:273	Microsoft PowerPoint	2
2540:289	Career Development for Business Professionals	3
2600:270	Introduction to Network Technologies	3
3300:111	English Composition I	4
3600:120	Introduction to Ethics	3
		65

Business Office Manager Option

		Credits			Credits
2040:240	Human Relations	3	2540:273	Microsoft PowerPoint	2
2040:256	Diversity in American Society	2	2540:289	Career Development for Business Professionals	3
2420:103	Essentials of Management Technology	3	2600:240	Microsoft Desktop Environment	3
2420:104	Introduction to Business in the Global Environment	3	2600:245	Network Operating Systems	3
2420:170	Applied Mathematics for Business	3	2600:270	Introduction to Network Technology	3
2420:202	Elements of Human Resource Management	3	3300:111	English Composition	4
2420:211	Basic Accounting I	3	3600:120	Introduction to Ethics	3
	or			Technical electives	3
6200:201	Accounting Principles I	3			67
2420:212	Basic Accounting II	3	Technical electives:		
	or		2440:141	Web Site Administration	3
6200:202	Accounting Principles II	3	2440:212	Multimedia and Interactive Web Elements	3
2440:125	Spreadsheet Software	2	2540:136	Speech Recognition Technology	2
2440:245	Introduction to Databases for Micros	3	2540:138	Project Management	2
2540:119	Business English	3	2600:261	Network Security	3
2540:121	Introduction to Office Procedures	3	2600:262	Linux Networking	3
2540:123	Microsoft Outlook	2			
2540:136	Speech Recognition Technology	2			
2540:138	Project Management	2			
2540:143	Microsoft Word: Beginning	2			
2540:144	Microsoft Word: Advanced	2			
2540:243	Internship	3			
2540:253	Advanced Word Processing	3			
2540:263	Professional Communication and Presentations	3			
2540:273	Microsoft PowerPoint	2			
2540:289	Career Development for Business Professionals	3			
3300:111	English Composition I	4			
3600:120	Introduction to Ethics	3			
		65			

Health Care Administrative Assistant Option

A grade of "C" or higher is required in all 2530: department courses

2040:240	Human Relations	3	2020:222	Technical Report Writing	3
	or		2030:151	Technical Mathematics I and	2
3750:100	Introduction to Psychology	3			
2420:171	Applied Mathematics for Business	3	2030:152	Technical Mathematics II	2
	or			or	
2420:211	Basic Accounting I	3	3470:250	Statistics for Everyday Life	4
2440:125	Spreadsheet Software	2	2040:240	Human Relations	3
2530:240	Medical Coding I-Diagnostic	3	2040:256	Diversity in American Society	2
2530:241	Health Information Management	3	2420:103	Essentials of Management Technology	3
2530:242	Medical Office Administration	3	2420:104	Introduction to Business in the Global Environment	3
2530:243	Medical Coding II-Procedural	3	2440:121	Introduction to Logic/Programming	3
2530:244	Medical Insurance Billing	3	2440:145	Introduction to Unix/Linux	3
2530:259	Internship Orientation	1	2440:170	Visual BASIC	3
2530:282	Medical Transcription and Editing	3	2440:247	Hardware Support	3
2530:284	Medical Office Techniques	2	2540:243	Internship	3
2540:119	Business English	3	2540:263	Professional Communication and Presentations	3
2540:121	Introduction to Office Procedures	3	2540:289	Career Development for Business Professionals	3
2540:136	Speech Recognition Technology	2	2600:245	Network Operating Systems	3
2540:143	Microsoft Word: Beginning	2	2600:261	Network Security	3
2540:144	Microsoft Word: Advanced	2	2600:270	Introduction to Network Technology	3
2540:243	Internship	3	2600:272	Network Hardware I	3
2540:289	Career Development for Business Professionals	3	2600:274	Network Hardware II	3
2740:120	Medical Terminology	3	2600:276	Advanced Network Technologies	3
2740:121	Study of Disease Processes	3	3300:111	English Composition I	4
2740:230	Basic Pharmacology	3	3600:120	Introduction to Ethics	3
3300:111	English Composition I	4		Technical electives	3
3600:101	Introduction to Philosophy	3			67
	or		Technical electives:		
3600:120	Introduction to Ethics	3	2440:140	Internet Tools	3
5550:211	First Aid & CPR	2	2600:252	Microsoft Active Directory	3
7600:106	Effective Oral Communication	3	2600:262	Linux Networking	3
	or		2600:290	Special Topics: Computer Services and Networking	1-5
2540:263	Professional Communication and Presentations	3			
		68			

Computer Support Specialist Option

2020:222	Technical Report Writing	3	2650:295	Field Experience for Educational Paraprofessional	2
2040:240	Human Relations	3	3100:265	Introductory Human Physiology/Lab	4
2040:256	Diversity in American Society	2	3150:101	Chemistry for Everyone/Lab	4
2040:104	Introduction to Business in the Global Environment	3	3300:111	English Composition I	4
2440:121	Introduction to Logic/Programming	3	3300:112	English Composition II	3
2440:125	Spreadsheet Software	2			
2440:140	Internet Tools	3			
2440:145	Introduction to Unix/Linux	3			
2440:170	Visual BASIC	3			
2440:245	Introduction to Databases for Micros	3			
2440:247	Hardware Support	3			
2540:123	Microsoft Outlook	2			
2540:143	Microsoft Word: Beginning	2			
2540:144	Microsoft Word: Advanced	2			
2540:243	Internship	3			
2540:263	Professional Communication and Presentations	3			

Networking Support Option

2020:222	Technical Report Writing	3
2030:151	Technical Mathematics I and	2
2030:152	Technical Mathematics II	2
	or	
3470:250	Statistics for Everyday Life	4
2040:240	Human Relations	3
2040:256	Diversity in American Society	2
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2440:121	Introduction to Logic/Programming	3
2440:145	Introduction to Unix/Linux	3
2440:170	Visual BASIC	3
2440:247	Hardware Support	3
2540:243	Internship	3
2540:263	Professional Communication and Presentations	3
2540:289	Career Development for Business Professionals	3
2600:245	Network Operating Systems	3
2600:261	Network Security	3
2600:270	Introduction to Network Technology	3
2600:272	Network Hardware I	3
2600:274	Network Hardware II	3
2600:276	Advanced Network Technologies	3
3300:111	English Composition I	4
3600:120	Introduction to Ethics	3
	Technical electives	3
		67
Technical electives:		
2440:140	Internet Tools	3
2600:252	Microsoft Active Directory	3
2600:262	Linux Networking	3
2600:290	Special Topics: Computer Services and Networking	1-5

2650: Paraprofessional Education

Intervention Specialist Option

The goal of the Paraprofessional Education program at Wayne College is to create a cadre of paraprofessionals who will serve the diverse needs of students in the educational community. These educational paraprofessionals will be trained to perform the following activities within their roles in educational programs: provide instructional support to individuals and small groups of students, implement behavior plans, collaborate with teachers to ensure educational programming is consistent across settings and personnel, assist teachers with technology integration for students, collect data on students and educational practices, and provide personal care assistance.

This degree is designed for individuals who want to serve students with disabilities in a variety of educational settings. Students will study how children learn and develop, how to support students with diverse learning needs within school settings, how to effectively collaborate with teachers and other related personnel, and the historical foundations for special education programs. The program serves as a pathway to the bachelor's degree program for students interested in obtaining licensure as an intervention specialist.

2650:295	Field Experience for Educational Paraprofessional	2
3100:265	Introductory Human Physiology/Lab	4
3150:101	Chemistry for Everyone/Lab	4
3300:111	English Composition I	4
3300:112	English Composition II	3

		<i>Credits</i>
3450:145	College Algebra	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5100:200	Introduction to Education	3
5100:220	Educational Psychology	3
5500:230	Educational Technology	3
5500:245	Understanding Literacy Development and Phonics	3
5550:211	First Aid & CPR	2
5610:225	Introduction to Exceptionalities	3
5610:450	Special Education Programming: Early Childhood	3
5610:459	Collaboration & Consultation in Schools and Communities	3
5610:467	Management Strategies in Special Education	3
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Technical Studies electives	4
		64

Early Childhood Option

The Associate of Applied Science degree in Paraprofessional Education — Early Childhood is designed for individuals who want to serve children ages 3 to grade three. Students study theories of child development, developmentally appropriate practices to serve young children, and the importance of collaborative skills to work with parents and a variety of service providers. Students develop the skills necessary for placement into early childhood settings as teacher assistants. The program serves as a pathway to the bachelor's degree program for students interested in obtaining licensure as an early childhood educator.

2650:295	Field Experience for Educational Paraprofessional	2
3100:103	Natural Science: Biology Lecture/Lab	4
3300:111	English Composition I	4
3300:112	English Composition II	3
3350:100	Introduction to Geography	3
3400:250	U.S. History to 1877	4
	or	
3400:251	U.S. History since 1877	4
	or	
3700:100	Government & Politics in the U.S.	4
3450:140	Fundamentals of Mathematics for Primary Educators	3
3450:240	Mathematical Foundations for Early Childhood Educators	3
5100:200	Introduction to Education	3
5100:220	Educational Psychology	3
5500:230	Educational Technology	3
5500:245	Understanding Language Literacy & Phonics	3
5610:225	Introduction to Exceptionalities	3
5610:450	Special Education Programming: Early Childhood	3
5610:459	Collaboration & Consultation in Schools & Communities	3
7400:265	Child Development	3
7400:270	Theory and Guidance of Play	3
7600:106	Effective Oral Communication	3
	Natural Science Requirement	4
	Physical Education/Wellness	1
	Technical Studies electives	4
		65

2670: Exercise Science Technology

The Exercise Science Technology program prepares graduates for paraprofessional positions in fitness and wellness settings. Graduates are trained to instruct and coach both groups and individuals in various exercises and activities. They assist clients in assessing physical fitness levels and they help clients in setting and reaching fitness goals. Graduates are prepared to enter careers as fitness trainers, wellness coaches, or other health and fitness paraprofessional positions, or to continue their education towards a bachelor's degree in areas including exercise science, sports science, or pre-physical therapy.

2520:101	Essential of Marketing Technology	3
	or	
6300:201	Introduction to Entrepreneurship	3
2540:143	Microsoft Word: Beginning	2
2670:250	Exercise Science Technology Internship	3
2740:120	Medical Terminology	3
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology Laboratory I	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology Laboratory II	1
3300:111	English Composition I	4
3600:101	Introduction to Philosophy	3
	or	
3600:120	Introduction to Ethics	3

	or		
3600:170	Introduction to Logic	3	
3750:100	Introduction to Psychology	3	
	or		
3850:100	Introduction to Sociology	4	
5550:100	Introduction to Sport Studies	3	
5550:150	Concepts of Health & Fitness	3	
5550:201	Kinesiology	3	
5550:211	First Aid & CPR	2	
	or		
5550:212	First Aid & CPR Professional Rescuer	2	
5550:220	Health Promotion and Behavior Change	3	
5550:302	Physiology of Exercise/Laboratory	3	
5550:330	Exercise and Weight Control	3	
5550:352	Strength and Conditioning	3	
5550:355	Exercise in Special Populations	3	
5570:202	Stress, Lifestyle and Your Health	3	
7400:133	Nutrition Fundamentals	3	
7600:105	Introduction to Public Speaking	3	
	or		
7600:106	Effective Oral Communication	3	
	Mathematics requirement	3	
		67	

Certificate Programs*

Certificate programs are designed to provide students with specialized job training utilizing courses from the college's associate degrees. These courses may subsequently be applied toward the Associate of Applied Business in Computer and Business Technology or Business Management Technology, or the Associate of Applied Science in Health Care Office Management, or Social Services Technology. In some instances, specific course sequencing is necessary, especially to the student attending full-time, to accommodate completion of the certificate within a prescribed time period. Please consult an adviser at Wayne College for further details.

Gerontological Social Services Certificate

Jobs in gerontological social services are expected to increase significantly in coming years because of rapidly growing numbers of older persons in our society. However, there is a shortage of personnel with specialized training in the field of aging. This certificate program in Gerontological Social Services is designed to respond to the need for individuals with specialized knowledge and skills for social service employment in nursing homes, retirement communities, senior centers, nutrition sites and similar programs.

Students who combine the Gerontological Social Services certificate with the associate degree in Social Services Technology strengthen their employment opportunities.

2260:121	Social Service Techniques I	3
2260:122	Social Service Techniques II	3
2260:150	Introduction to Gerontological Services	3
2260:171	Career Issues in Social Services I	1
2260:172	Career Issues in Social Services II	1
2260:251	Community Services for Senior Citizens	3
2260:275	Therapeutic Activities	3
2260:287	Practicum in Therapeutic Activities and Long-term Care	1
	or	
2260:289	Practicum in Gerontological Social Services	1
2260:293	Field Work Orientation	1
2260:294	Field Work Evaluation	1
3100:103	Natural Science: Biology	4
3100:108	Introduction to Biological Aging	3
3300:111	English Composition I	4
7750:276	Introduction to Social Welfare	3
		34

Medical Billing Certificate

The medical billing specialist is an integral part of the health care team. Medical billing personnel are responsible for patient billing and basic accounting systems used in the health care facility. The individual responsible for the medical billing needs to know medical terminology, principles of anatomy and physiology, disease processes, medical procedures, medical records, patient billing, accounting and computer skills. Medical references will be used extensively to code patient diagnoses and medical procedures performed. Competence in completion of the standard health insurance claim, knowledge of third-party reimbursement, and an understanding of collection policies and procedures are also important to this position.

Wayne College's Medical Billing certificate prepares you to work in hospitals, nursing homes, outpatient clinics, medical group practices, health maintenance organizations, medical billing services and insurance companies.

Students entering the program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

		<i>Credits</i>
2440:105	Introduction to Computers and Application Software	3
2540:290	ST: Keyboarding for Skill Development	1

Certificate Requirements. (A grade of "C" or higher is required in all 2530: department courses.)

2420:211	Basic Accounting I	3
2440:125	Spreadsheet Software	2
2530:240	Medical Coding I - Diagnostic	3
2530:241	Health Information Management	3
2530:242	Medical Office Administration	3
2530:243	Medical Coding II - Procedural	3
2530:244	Medical Insurance Billing	3
2540:119	Business English	3
2540:143	Microsoft Word, Beginning	2
2540:263	Professional Communication and Presentations	3
	or	
7600:106	Effective Oral Communication	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
		34

Medical Transcription Certificate

There is substantial demand for high-quality, professional medical transcriptionists. This certificate will prepare individuals for entry-level positions in physicians' offices, hospitals, clinics, medical centers, government facilities, transcription services and home offices.

Students entering the Medical Transcription certificate program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

2440:105	Introduction to Computers and Application Software	3
2540:290	ST: Keyboarding for Skill Development	1

Certificate Requirements

2530:241	Health Information Management	3
2530:242	Medical Office Administration	3
2530:282	Medical Transcription and Editing	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:136	Speech Recognition Technology	2
2540:143	Microsoft Word, Beginning	2
2540:144	Microsoft Word, Advanced	2
2540:263	Professional Communication and Presentations	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	3
		33

Information Specialist Certificate

Organizations need to process a rapidly growing amount of information. Information specialists help ensure the smooth and efficient handling of information. Core responsibilities for information specialists include performing and coordinating an office's administrative activities; storing, retrieving and integrating information for dissemination to staff and clients; planning and scheduling meetings and appointments; organizing and maintaining paper and electronic files; managing projects; conducting research; and disseminating information using the telephone, mail services, websites, and e-mail. They may also handle travel arrangements. In addition, information specialists often use computers to do tasks such as create spreadsheets; compose correspondence; manage databases; and create presentations, reports and documents. Potential job titles include Information Processor, Administrative or Office Assistant, Data Entry Operator, Receptionist and Office Clerk. All credits are applicable to the Associate of Applied Business Degree in Computer and Business Technology—Application Software option.

Students entering the program must demonstrate a fundamental knowledge of computer software and keyboarding by examination (CISBR) or take the following bridge courses prior to enrolling in the program:

		<i>Credits</i>
2440:105	Introduction to Computers and Application Software	3
2540:143	Microsoft Word, Beginning	2
2540:290	ST: Keyboarding for Skill Development	1

Certificate Requirements

2440:125	Spreadsheet Software	2
2440:245	Introduction to Databases for Micros	3
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:123	Microsoft Outlook	2
2540:136	Speech Recognition Technology	2
2540:138	Project Management	2
2540:144	Microsoft Word, Advanced	2
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:263	Professional Communication and Presentations	3
2540:273	Microsoft PowerPoint	2
2540:289	Career Development for Business Professionals	3
		33

Therapeutic Activities Certificate

This certificate prepares recipients for entry-level positions in activities in long-term care, an area with frequent job openings, and to meet psychosocial needs of older adults through individual and group therapeutic activities in diverse settings. Combined with the Certificate in Gerontological Social Services, it also provides knowledge and skills to support social service roles with the elderly. While enhancing employability and effectiveness in the field of aging, much of the content can also be applied to diverse fields of practice and is helpful for work with numerous populations.

2260:150	Introduction to Gerontological Services	3
2260:251	Community Services for Senior Citizens	3
2260:275	Therapeutic Activities	3
2260:276	Practicum in Therapeutic Activities	1
	or	
2260:287	Practicum in Therapeutic Activities and Long-term Care	1
2260:293	Field Work Orientation	1
2260:294	Field Work Evaluation	1
		12

* Many of these certificates can be completed in one year of full-time study, but only if begun in the Fall Semester. Consult an academic adviser for details.

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.

		<i>Credits</i>
2020:222	Technical Report Writing	3
2020:290	Special Topics: Information Design	3
2020:290	ST: Ethical Issues in Workplace Communication	3
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	<u>3</u>
		12

SUMMIT COLLEGE PROGRAMS

2420: Bachelor of Organizational Supervision

The Bachelor of Organizational Supervision (BOS) is a degree-completion program offered by Summit College and available, in its entirety, at Wayne College. It is specifically designed for students who already hold an associate degree in a technical area but require a bachelor's degree to advance professionally. Graduates of the Bachelor of Organizational Supervision program will gain the knowledge and field experience necessary to be competitive in today's marketplace.

The total program of study requires 128 semester credit hours including credits transferred from the technical associate degree, 30 credit hours of 300/400 level core courses as listed below and any elective credits necessary to make the 128 credit hour minimum. Elective credits can focus on areas that support specific employment and career interests. Consult an academic adviser at Wayne College for further details.

<i>Courses at Wayne College</i>		<i>Credits</i>
2420:300	Supervision in a Technical Environment	3
2420:301	Information Design	3
2420:302	Ethical Issues in the Workplace	3
2420:310	Leadership Principles and Practices in Technical Organizations	3
2420:311	Community Service and Leadership in a Global Context	3
2420:401	Leading Project Teams in Technical Organizations	3
2420:402	Assessing and Improving Technical Organizations	3
2420:420	Human Capital Development for Technical Organizations	3
2420:421	Senior Seminar in Organizational Supervision	3
7600:325	Intercultural Communication -OR-	
7600:344	Group Decision Making -OR-	
7600:345	Business and Professional Speaking	<u>3</u>
		30

Technical associate degree credits (minimum)	60
Total general education credits required*	as needed to meet University baccalaureate degree requirements
Total credits required for degree	(minimum) 128

*The General Education mathematics requirement must be fulfilled by taking 3470:250 Statistics for Everyday Life, or 3470:260 Basic Statistics. Consult an academic adviser for further details.

2790: Respiratory Therapy

<i>First year</i>		
2740:120	Medical Terminology	3
3150:110	Introduction: General, Organic & Biochemistry I	3
3150:111	Introduction: General, Organic & Biochemistry I Laboratory	1
3300:111	English Composition I	4
3300:112	English Composition II OR	
2020:222	Technical Report Writing	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	4
	Physical Education and Wellness Requirement	1
	Social Science Requirement	<u>6</u>
		31
<i>Second year</i>		
3100:130	Principles of Microbiology	3
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3600:120	Introduction to Ethics	3
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	3
	General elective	<u>3</u>
		28



ASSOCIATE DEGREES

The following associate degree programs are available through Summit College 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 adviser at Wayne College for further explanation before enrolling for courses.

2200: Early Childhood Development

<i>Courses at Wayne College</i>		<i>Credits</i>
2040:240	Human Relations	3
2040:242	American Urban Society	3
3300:111	English Composition I	4
5550:211	First Aid & CPR	2
5610:450	Special Education Programming: Early Childhood	3
7400:265	Child Development	3
7400:270	Theory and Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	4
7600:106	Effective Oral Communication	3
	Mathematics requirement (consult adviser)	3
	Electives	2
		33

<i>Courses at Akron Campus</i>		<i>Credits</i>
2200:110	Foundations in Early Childhood Development	3
2200:245	Infant/Toddler Day Care Programs	3
2200:246	Multicultural Issues in Child Care	3
2200:247	Diversity in Early Childhood Literacy	3
2200:250	Observing and Recording Children's Behavior	3
2200:295	Early Childhood Practicum	5
5200:360	Teaching in the Early Childhood Center	2
5200:370	Early Childhood Center Laboratory	2
7400:132	Early Childhood Nutrition	2
7400:448	Before & After School Care	2
7400:460	Organization & Supervision of Child Care Centers	3
		31

2220: Criminal Justice Technology

Law Enforcement Option

<i>Courses at Wayne College</i>		<i>Credits</i>
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2220:100	Introduction to Criminal Justice	3
2820:105	Basic Chemistry/Lab	3
3300:111	English Composition I	4
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Mathematics Requirement	4
	Physical Education/Wellness	1
		31

<i>Courses at Akron campus</i>		<i>Credits</i>
2220:102	Principles of Criminal Law	3
2220:104	Evidence and Criminal Legal Process	3
2220:105	Introduction to Police Studies	3
2220:251	Criminal Investigation	3
2220:253	Basic Forensic Methods	3
2220:260	Criminal Incident Interventions for Criminal Justice	3
2220:296	Current Topics in Criminal Justice	6
2220:298	Applied Ethics in Criminal Justice	3
2220:xxx	Technical Electives	6
		33

Corrections Option

<i>Courses at Wayne College</i>		<i>Credits</i>
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2220:100	Introduction to Criminal Justice	3
2260:260	Introduction to Addiction	3
2820:105	Basic Chemistry	3
3300:111	English Composition I	4
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Mathematics requirement (consult adviser)	4
	Physical Education/Wellness	1
		34

<i>Courses at Akron Campus</i>		<i>Credits</i>
2220:106	Juvenile Justice Process	3
2220:260	Critical Incident Interventions for Criminal Justice	3

		<i>Credits</i>
2220:270	Community Corrections	3
2220:296	Current Topics in Criminal Justice	6
2220:298	Applied Ethics in Criminal Justice	3
2260:255	Effective Workplace Relationships	3
2260:262	Basic Helping Skills	4
2260:269	Criminal Justice and Addiction	3
2220:	Technical electives	3
		31

Public Safety and Security Administration

<i>Courses at Wayne College</i>		<i>Credits</i>
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:256	Diversity in American Society	2
2220:100	Introduction to Criminal Justice	3
2420:104	Introduction to Business in a Global Environment	3
2540:263	Professional Communication and Presentations	3
3300:111	English Composition I	4
5550:211	First Aid and CPR	2
	Mathematics requirement (consult adviser)	4
		27

<i>Courses at Akron Campus</i>		<i>Credits</i>
2220:101	Introduction to Security Administration Technology	3
2220:231	Physical Security: Systems, Design and Control	3
2220:232	Legal Issues in Security Administration	3
2220:233	Security Investigations: Principles and Practice	3
2220:234	Computer and Information Security	3
2220:245	Homeland Security: Principles and Practice	3
2230:100	Introduction to Fire Protection	4
2230:250	Hazardous Materials	4
2230:257	Fire and Safety Issues for Business	3
2235:305	Principles of Emergency Management	3
2235:490	Business Preparedness and Continuity	3
2220:	Technical electives	6
		41

2230: Fire Protection Technology

<i>Courses at Wayne College</i>		<i>Credits</i>
2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2820:105	Basic Chemistry	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	Mathematics requirement (consult adviser)	4
		23

<i>Courses at Akron Campus</i>		<i>Credits</i>
2230:100	Introduction 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	4
		42

2240: Emergency Medical Services Technology

Fire/Medic Option

<i>Courses at Wayne College</i>		<i>Credits</i>
2040:240	Human Relations	3
2740:120	Medical Terminology	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
7600:106	Effective Oral Communications	3
	Mathematics Requirement	4
		20

<i>Courses at Akron Campus</i>		<i>Credits</i>
2230:254	Fire Prevention	3
2230:295	Technical Training/Field Experience	4
2235:305	Principles of Emergency Management	3
2780:106	Anatomy and Physiology for Allied Health I	3
2780:107	Anatomy and Physiology for Allied Health II	3
		16

Accredited certification training		
State of Ohio – Dept. of Public Safety EMT-Paramedic Certification		30

Akron General Medical Center Option

Courses at Wayne College		Credits
2040:240	Human Relations	3
2740:120	Medical Terminology	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
7600:106	Effective Oral Communications	3
	Mathematics Requirement	4
		20

Courses at Akron Campus

2230:202	Incident Management for First Responders	4
2230:257	Fire and Safety Issues for Business and Industry	3
2235:305	Principles of Emergency Management	3
2780:106	Anatomy and Physiology for Allied Health I	3
2780:107	Anatomy and Physiology for Allied Health II	3
		16

Akron General Medical Center Program		
State of Ohio Dept. of Public Service EMT-Paramedic Certification		30

2260: Community Services Technology**General Option**

Courses at Wayne College		Credits
2030:161	Math for Modern Technology OR	
3470:250	Statistics for Everyday Life	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2260:150	Introduction to Gerontological Services	3
2260:260	Introduction to Addiction	3
3300:111	English Composition I	4
3300:112	English Composition II OR	
2020:222	Technical Report Writing OR	
2540:119	Business English	3
7750:276	Introduction to Social Welfare	3
7600:106	Effective Oral Communications	3
	Computer elective	4
		33

Courses at Akron Campus

2040:254	The Black Experience from 1619 to 1877 OR	
2040:257	The Black Experience from 1877 to 1954 OR	
2040:258	The Black Experience 1954 to Present	2
2260:262	Basic Helping Skills	4
2260:277	Case Management in Community Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community & Social Services	5
	Technical electives	13
		31

Social Work Option

Courses at Wayne College		Credits
2030:161	Math for Modern Technology OR	
3470:250	Statistics for Everyday Life	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2260:150	Introduction to Gerontological Services	3
2260:260	Introduction to Addiction	3
3100:103	Natural Science: Biology	4
3300:111	English Composition I	4
3300:112	English Composition II	3
3700:100	Government & Politics in the US	4
	Credits	
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communications OR	
2540:263	Professional Communications & Presentations	3
7750:270	Poverty & Minority issues	3
7750:276	Introduction to Social Welfare	4
7750:427	Human Behavior and Social Environment I	3
		48

Courses at Akron Campus

2260:262	Basic Helping Skills	4
2260:277	Case Management in Community Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience in Community & Social Services	5
		16

Addiction Services Option

Courses at Wayne College		Credits
2030:161	Math for Modern Technology OR	
3470:250	Statistics for Everyday Life	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2260:150	Introduction to Gerontological Services	3
2260:260	Introduction to Addiction	3
3300:111	English Composition I	4
3300:112	English Composition II OR	
2020:222	Technical Report Writing	3
7600:106	Effective Oral Communications	3
	Diversity Requirement	2
		28

Courses at Akron Campus

2260:210	Addiction Education & Prevention	3
2260:240	Drug Use and Abuse	3
2260:261	Addiction Treatment	4
2260:263	Group Principles in Addiction	3
2260:264	Addiction and the Family	3
2260:267	Addiction Assessment and Treatment Planning	3
2260:278	Techniques of Community Work	4
2260:286	Addiction Services Internship	2
	Technical Electives	11
		36

Gerontology Option

Courses at Wayne College		Credits
2030:161	Math for Modern Technology OR	
3470:250	Statistics for Everyday Life	4
2040:240	Human Relations	3
2040:242	American Urban Society	3
2260:150	Introduction to Gerontological Services	3
2260:260	Introduction to Addiction	3
3300:111	English Composition I	4
3300:112	English Composition II OR	
2020:222	Technical Report Writing OR	
2540:119	Business English	3
7600:106	Effective Oral Communication	3
7750:276	Introduction to Social Welfare	4
	Computer elective	4
		34

Courses at Akron Campus

2040:244	Death & Dying	2
2040:254	The Black Experience from 1619 to 1877 OR	
2040:257	The Black Experience from 1877 to 1954 OR	
2040:258	The Black Experience 1954 to Present	2
2260:262	Basic Helping Skills	4
2260:277	Case Management in Community Services	3
2260:278	Techniques of Community Work	4
2260:279	Technical Experience: Community & Social Services	5
3006:450	Interdisciplinary Seminar in Gerontology	2
3006:486	Retirement Specialist	2
7400:441	Family Relationships in Middle & Later Years	3
	Gerontology elective	3
		30

2280: Hospitality Management**Culinary Arts Option**

Courses at Wayne College		Credits
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
3300:111	English Composition I	4
7400:133	Nutrition Fundamentals	3
7600:106	Effective Oral Communication	3
	Cultural Diversity requirement (consult adviser)	2
	Mathematics requirement (consult adviser)	4
		28

Courses at Akron Campus

2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:122	Fundamentals of Food Preparation II	4
2280:160	Wine and Beverage Service	3
2280:230	Advanced Food Preparation	4
2280:232	Dining Room Service and Training	3
2280:233	Restaurant Operations and Management	4
2280:237	Internship	2
2280:245	Menu, Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2280:261	Baking and Classical Desserts	4
2540:270	Business Software Applications	4
7400:133	Nutrition Fundamentals	3
		44

Hotel/Lodging Management Option

Courses at Wayne College		Credits
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2540:263	Professional Communications and Presentations	3
	or	
7600:106	Effective Oral Communication	3
3300:111	English Composition I	4
	Cultural Diversity requirement (consult adviser)	2
	Mathematics requirement (consult adviser)	4
		25

Courses at Akron Campus

2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:160	Wine and Beverage Service	3

2280:232	Dining Room Service and Training	3
2280:237	Internship	2
2280:240	Supervision in the Hospitality Industry	3
2280:245	Menu, Purchasing and Cost Control	4
2280:250	Front Office Operations	3
2280:256	Hospitality Law	3
2280:268	Revenue Centers	3
2280:278	Hospitality Industry Marketing	3
2280:280	Special Events Management	3
2540:270	Business Software Applications	4
		43

2290:104	Basic Legal Research and Writing	3
2290:106	Business Associations	3
2290:110	Tort Law	3
2290:112	Family Law	3
2290:118	Probate Administration	4
2290:204	Advanced Legal Research	3
2290:214	Civil Procedures	3
2290:218	Advanced Probate Administration	3
2290:220	Paralegal Internship	4
	Technical Electives	3
		38

Hotel Marketing and Sales Option

Courses at Wayne College

2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2540:273	Microsoft PowerPoint	2
2540:263	Professional Communications and Presentations	3
	or	
7600:106	Effective Oral Communication	3
3300:111	English Composition I	4
	Cultural Diversity requirement (consult adviser)	2
	Mathematics requirement (consult adviser)	4
		27

Courses at Akron Campus

2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:232	Dining Room Service and Training	3
2280:237	Internship	2
2280:240	Supervision in the Hospitality Industry	3
2280:250	Front Office Operations	3
2280:256	Hospitality Law	3
2280:268	Revenue Centers	3
2280:278	Hospitality Industry Marketing	3
2280:280	Special Events Management	3
2520:206	Retail Promotion and Advertising	3
2520:212	Principles of Sales	3
2540:270	Business Software Applications	4
		42

Restaurant Management Option

Courses at Wayne College

2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2540:263	Professional Communications and Presentations	3
	or	
7600:106	Effective Oral Communication	3
3300:111	English Composition I	4
	Cultural Diversity requirement (consult adviser)	2
	Mathematics requirement (consult adviser)	4
		25

Courses at Akron Campus

2280:101	Introduction to Hospitality	3
2280:120	Safety and Sanitation	2
2280:121	Fundamentals of Food Preparation I	4
2280:122	Fundamentals of Food Preparation II	4
2280:160	Wine and Beverage Service	3
2280:232	Dining Room Service and Training	3
2280:233	Restaurant Operations and Management	4
2280:237	Internship	2
2280:240	Supervision in the Hospitality Industry	3
2280:243	Food Equipment and Plant Operations	3
2280:245	Menu, Purchasing and Cost Control	4
2280:256	Hospitality Law	3
2280:278	Hospitality Industry Marketing	3
2540:270	Business Software Applications	4
		45

2290: Paralegal Studies

Courses at Wayne College

2020:222	Technical Report Writing	3
2040:240	Human Relations	3
2040:242	American Urban Society	3
2040:256	Diversity in American Society	2
2420:211	Basic Accounting I	3
2440:103	Software Fundamentals	2
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Mathematics requirement (consult adviser)	4
	Electives	3
		31

Courses at Akron Campus

2220:104	Evidence and the Criminal Legal Process	3
2290:101	Introduction to Paralegal Studies	3

2420: Business Management Technology

General Business Option

Courses at Wayne College

2030:161	Math for Modern Technology OR	
3450:145	College Algebra	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics OR	
3250:200	Principles of Microeconomics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:213	Essentials of Management Accounting	3
2420:217	Survey of Taxation	4
2420:243	Survey in Finance	3
2420:250	Problems in Business Management	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and Social Environment of Business	3
2520:101	Essentials of Marketing Technology	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking OR	
7600:106	Effective Oral Communications OR	
2540:263	Professional Communications and Presentations	3
	Diversity Requirement	2
		56

Courses at Akron Campus

2420:125	Essentials of Personal Finance	3
2520:203	Principles of Advertising OR	
2520:212	Principles of Sales	3
2540:270	Business Software Applications	4
		10

Accounting Option

Courses at Wayne College

2030:161	Math for Modern Technology OR	
3450:145	College Algebra	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:213	Essentials of Management Accounting	3
2420:216	Survey of Cost Accounting	3
2420:217	Survey of Taxation	4
2420:202	Elements of Human Resource Management OR	
2520:101	Essentials of Marketing Technology	3
2420:243	Survey in Finance	3
	Credits	
2420:250	Problems in Business Management	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and Social Environment of Business	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking OR	
7600:106	Effective Oral Communications OR	
2540:263	Professional Communications and Presentations	3
	Diversity Requirement	2
		56

Courses at Akron Campus

2420:125	Essentials of Personal Finance	3
2420:215	Computer Applications for Accounting Cycles	3
2420:220	Applied Accounting OR	
2420:245	Accounting Internship	3
2540:270	Business Software Applications	4
		13

Small Business Management Option

Courses at Wayne College

2030:161	Math for Modern Technology OR	
3450:145	College Algebra	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:202	Elements of Human Resource Management	3

		Credits
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2420:217	Survey of Taxation	4
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and Social Environment of Business	3
2440:140	Internet Tools	3
2520:101	Essentials of Marketing Technology	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking OR	
7600:106	Effective Oral Communications OR	
2540:263	Professional Communications and Presentations	3
	Diversity Requirement	2
		53

Courses at Akron Campus

2420:117	Small Business Development	3
2420:125	Essentials of Personal Finance	3
2520:203	Principles of Advertising OR	
2520:212	Principles of Sales	3
2420:227	Entrepreneurship Projects	3
2540:270	Business Software Applications	4
		16

2440: Computer Information Systems**Computer Maintenance and Networking Option-Cisco Networking Track****Courses at Wayne College**

2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II AND	2
2030:153	Technical Mathematics III OR	2
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2440:140	Internet Tools	3
2440:141	Website Administration	3
2440:145	Introduction to Unix/Linux	3
2440:247	Hardware Support	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking OR	
7600:106	Effective Oral Communication OR	
2540:263	Professional Communication & Presentations	3
	Diversity Requirement	2
		49

Courses at Akron Campus

2440:201	Networking Basics	3
2440:202	Router & Routing Basics	3
2440:203	Switching Basics & Wireless	3
2440:204	WAN Technologies	3
2440:240	Computer Information Systems Internship	3
2440:248	Server Hardware Support	3
		18

Computer Maintenance and Networking Option-Microsoft Networking Track**Courses at Wayne College**

2020:222	Technical Report Writing	3
2030:151	Technical Math I	2
2030:152	Technical Math II	2
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:202	Elements of Human Resource Management	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2440:140	Internet Tools	3
2440:141	Web Site Administration	3
2440:145	Introduction to Unix/Linux	3
2440:247	Hardware Support	3
2600:240	Microsoft Desktop Environment	3
2600:	Technical Elective	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	or	
2540:263	Professional Communications and Presentations	3
3300:111	Cultural Diversity requirement (consult adviser)	2
		55

Courses at Akron Campus

2440:240	Computer Information Systems Internship	3
2440:248	Server Hardware Support	3
2600:242	Microsoft Networking II	3
2600:244	Microsoft Networking III	3
		12

Programming Specialist Option**Courses at Wayne College**

2020:222	Technical Report Writing	3
2030:152	Technical Math II	2
	and	
2030:153	Technical Math III	2
	or	
2030:161	Mathematics for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2440:121	Introduction to Logic/Programming	3
2440:140	Internet Tools	3
2440:145	Introduction to Unix/Linux	3
2440:160	Java Programming	3
2440:170	Visual BASIC	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	or	
2540:263	Professional Communications and Presentations	3
	Cultural Diversity requirement (consult adviser)	2
		46

Courses at Akron Campus

2440:180	Database Concepts	3
2440:210	Client/Server Programming	3
2440:234	Advanced Business Programming	3
2440:241	Systems Analysis and Design	3
2440:251	CIS Projects	3
2440:256	C++ Programming	3
		18

Web Development Option**Courses at Wayne College**

2020:222	Technical Report Writing	3
2030:152	Technical Math II	2
	and	
2030:153	Technical Math III	2
	or	
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2420:212	Basic Accounting II	3
2440:121	Introduction to Logic/Programming	3
2440:140	Internet Tools	3
2440:141	Web Site Administration	3
2440:145	Introduction to Unix/Linux	3
2440:160	Java Programming	3
2440:170	Visual BASIC	3
2440:212	Multimedia and Interactive Web Elements	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communications	3
	or	
2540:263	Professional Communications and Presentations	3
	Cultural Diversity requirement (consult adviser)	2
		52

Courses at Akron Campus

2440:180	Database Concepts	3
2440:211	Interactive Web Programming	3
2440:241	Systems Analysis and Design	3
2440:251	Computer Applications Projects	3
		12

2520: Marketing And Sales Technology**Advertising Emphasis****Courses at Wayne College**

2020:222	Technical Report Writing	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics OR	
3250:200	Principles of Microeconomics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and Social Environment of Business	3
2520:101	Essentials of Marketing Technology	3
2540:271	Desktop Publishing OR	
2540:273	Microsoft PowerPoint	2
2540:263	Professional Communications and Presentations OR	
2520:206	Retail Promotion & Advertising (Akron campus)	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking	3
	Diversity Requirement	2
		39-40

<i>Courses at Akron Campus</i>		<i>Credits</i>
2020:224	Writing for Advertising	4
2520:202	Retailing Fundamentals	3
2520:203	Principles of Advertising	3
2520:204	Services Marketing	3
2520:212	Principles of Sales	3
2520:221	Advertising Campaign	3
2520:240	Marketing Internship	3
2540:270	Business Software Applications	4
		26

Fashion Option

<i>Courses at Wayne College</i>		
2020:222	Technical Report Writing OR	
2540:263	Professional Communications and Presentations	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics OR	
3250:200	Principles of Microeconomics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and Social Environment of Business	3
2520:101	Essentials of Marketing Technology	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking	3
	Diversity Requirement	2
		34

<i>Courses at Akron Campus</i>		
2520:202	Retailing Fundamentals	3
2520:203	Principles of Advertising	3
2520:204	Services Marketing	3
2520:206	Retail Promotion & Advertising	3
2520:212	Principles of Sales	3
2540:270	Business Software Applications	4
7400:139	The Fashion and Furnishings Industry	3
7400:219	Clothing Communications	3
7400:225	Textiles	3
7400:226	Textile Evaluation	3
		31

Retailing Option

<i>Courses at Wayne College</i>		
2020:222	Technical Report Writing OR	
2540:263	Professional Communications and Presentations	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics OR	
3250:200	Principles of Microeconomics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and social Environment of Business	3
2520:101	Essentials of Marketing Technology	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking	3
	Diversity Requirement	2
		34

<i>Courses at Akron Campus</i>		
2020:224	Writing for Advertising	4
2520:202	Retailing Fundamentals	3
2520:203	Principles of Advertising	3
2520:204	Services Marketing	3
2520:206	Retail Promotion & Advertising	3
2520:212	Principles of Sales	3
2520:221	Advertising Campaign	3
2520:240	Marketing Internship	3
2520:254	Sales Management Technology	3
2540:270	Business Software Applications	4
		32

Sales Emphasis

<i>Courses at Wayne College</i>		
2020:222	Technical Report Writing OR	
2540:263	Professional Communications and Presentations	3
2030:161	Math for Modern Technology	4
2040:240	Human Relations	3
2040:247	Survey of Basic Economics OR	
3250:200	Principles of Microeconomics	3
2420:104	Introduction to Business in the Global Environment	3
2420:211	Basic Accounting I	3
2420:243	Survey in Finance	3
2420:280	Essentials of Business Law OR	
6400:220	Legal and social Environment of Business	3
2520:101	Essentials of Marketing Technology	3
3300:111	English Composition I	4
7600:105	Introduction to Public Speaking	3
	Diversity Requirement	2
		37

<i>Courses at Akron Campus</i>		<i>Credits</i>
2020:224	Writing for Advertising	4
2520:202	Retailing Fundamentals	3
2520:203	Principles of Advertising	3
2520:204	Services Marketing	3
2520:206	Retail Promotion & Advertising	3
2520:212	Principles of Sales	3
2520:221	Advertising Campaign	3
2520:240	Marketing Internship	3
2520:254	Sales Management Technology	3
2540:270	Business Software Applications	4
		32

2540: Office Administration

Administrative Assistant Option

<i>Courses at Wayne College</i>		
2040:240	Human Relations	3
2040:247	Survey of Basic Economics	3
2420:103	Essentials of Management Technology	3
2420:104	Introduction to Business in the Global Environment	3
2420:170	Applied Mathematics for Business	3
2420:211	Basic Accounting I	3
2540:143	Microsoft Word Beginning	2
2540:119	Business English	3
2540:121	Introduction to Office Procedures	3
2540:263	Professional Communications and Presentations	3
2540:273	Microsoft Powerpoint	2
3300:111	English Composition I	4
	Diversity Requirement	2
	Natural Science Requirement	3
		40

<i>Courses at Akron Campus</i>		
2540:129	Information/Records Management	3
2540:151	Intermediate Word Processing	3
2540:243	Internship	3
2540:253	Advanced Word Processing	3
2540:265	Women in Management	3
2540:270	Business Software Applications	4
2540:271	Desktop Publishing	3
2540:281	Editing/Proofreading/Transcription	3
		25

2740: Medical Assisting Technology

<i>Courses at Wayne College</i>		
2040:240	Human Relations	3
2440:105	Introduction to Computers and Application Software	3
2540:140	Keyboarding for Nonmajors	2
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	3
3300:111	English Composition	4
7600:106	Effective Oral Communication	3
	Cultural Diversity requirement (consult adviser)	2
	Mathematics requirement (consult adviser)	3
		29

<i>Courses at Akron Campus</i>		
2740:122	Emergency Responder I	1
2740:126	Administrative Medical Assisting I	4
2740:127	Administrative Medical Assisting II	4
2740:128	Basic Procedural Coding	3
2740:129	Basic Diagnostic Coding	3
2740:135	Clinical Medical Assisting I	4
2740:228	Medical Insurance	3
2740:235	Clinical Medical Assisting II	4
2740:246	Medical Assisting Practicum	4
2780:106	Anatomy and Physiology for Allied Health I	3
2780:107	Anatomy and Physiology for Allied Health II	3
		36



2760: Radiologic Technology

<i>Courses at Wayne College</i>		<i>Credits</i>
2030:130	Mathematics for Allied Health	3
2040:240	Human Relations	3
2740:120	Medical Terminology	3
3100:200, 202	Human Anatomy and Physiology I, II	6
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
		22
<i>Courses at Akron Campus</i>		
2760:141	Anatomy and Positioning I	3
2760:142	Anatomy and Positioning II	3
2760:151	Methods of Patient Care I	2
2760:152	Methods of Patient Care II	1
2760:161	Radiologic Physics and Principles I	3
2760:162	Radiologic Physics and Principles II	3
2760:171	Clinic Class I	1
2760:172	Clinic Class II	1
2760:181	Clinical I	3
2760:182	Clinical II	3
2760:192	Radiobiology	2
2760:252	Imaging Obstacles and Solutions	2
2760:261	Radiologic Physics and Principles III	3
2760:262	Anatomy & Physiology Registry Review	2
2760:271	Special Imaging I	3
2760:272	Special Imaging II	3
2760:281	Clinical III	4
2760:282	Clinical IV	4
2760:291	Pathophysiology	2
2760:292	Cross-sectional Anatomy	2
		50

2770: Surgical Technology

<i>Courses at Wayne College</i>		
2040:240	Human Relations	3
2040:242	American Urban Society	3
2740:120	Medical Terminology	3
2740:121	Study of Disease Processes	3
2740:230	Basic Pharmacology	3
2820:105	Basic Chemistry	3
3100:130	Principles of Microbiology	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
	Mathematics requirement	3
		33
<i>Courses at Akron Campus</i>		
2770:100	Introduction to Surgical Technology	4
2770:221	Surgical Technology Procedures I	3
2770:222	Surgical Technology Procedures II	3
2770:231	Clinical Application I	2
2770:232	Clinical Application II	5
2770:233	Clinical Application III	5
2770:248	Surgical Anatomy I	3
2770:249	Surgical Anatomy II	3
2780:106	Anatomy and Physiology for Allied Health I	3
2780:107	Anatomy and Physiology for Allied Health II	3
		34

2860: Electronic Engineering Technology

<i>Courses at Wayne College</i>		
2020:222	Technical Report Writing	3
2030:152	Technical Math II	2
2030:153	Technical Math III	2
2040:240	Human Relations	3
2040:242	American Urban Society	3
3300:111	English Composition I	4
		17
<i>Courses at Akron Campus</i>		
2030:154	Technical Math IV	3
2030:255	Technical Calculus I	3
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:164	Technical Physics: Heat and Light	2
2860:120	Circuit Fundamentals	4
2860:121	Introduction to Electronics and Computers	2
2860:122	AC Circuits	3
2860:123	Electronic Devices	4
2860:225	Applications of Electronic Devices	4
2860:237	Digital Circuits	4
2860:238	Microprocessor Applications	4
2860:242	Machinery and Controls	3
2860:251	Electronic Communications	4
2860:260	Electronics Project	2
2870:301	Computer Control of Automated Systems	3
2940:210	Computer Aided Drawing	3
		52

2880: Computer-Aided Manufacturing

<i>Courses at Wayne College</i>		<i>Credits</i>
2030:151	Technical Math I	2
2030:152	Technical Math II	2
2030:153	Technical Math III	2
2040:240	Human Relations	3
2880:232	Labor-Management Relations	3
3300:111	English Composition I	4
2020:222	Technical Report Writing	3
	or	
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	General electives	3
		26
<i>Courses at Akron Campus</i>		
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:163	Technical Physics: Electricity and Magnetism	2
2870:348	CNC Programming I	3
2880:100	Basic Principles of Manufacturing Management	4
2880:110	Manufacturing Processes	3
2880:130	Work Measurement and Cost Estimating	3
2880:151	Industrial Safety and Environmental Protection	2
2880:201	Robotics and Automated Manufacturing	3
2880:211	Computerized Manufacturing Control	3
2880:241	Introduction to Quality Assurance	3
2920:130	Introduction to Hydraulics and Pneumatics	3
2940:210	Computer Aided Drawing I	3
	Technical electives	3
		40

2920: Mechanical Engineering Technology

<i>Courses at Wayne College</i>		
2020:222	Technical Report Writing	3
2030:152	Technical Math II	2
2030:153	Technical Math III	2
2040:240	Human Relations	3
2040:242	American Urban Society	3
3300:111	English Composition	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
		21
<i>Courses at Akron Campus</i>		
2030:154	Technical Math IV	3
2030:255	Technical Calculus I	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:163	Technical Physics: Electricity and Magnetism	2
2820:164	Technical Physics: Heat and Light	2
2870:348	CNC Programming I	3
2920:101	Introduction to Mechanical Design	3
2920:142	Introduction 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 Laboratory	1
2940:121	Technical Drawing I	3
2940:210	Computer Aided Drawing I	3
2990:125	Statics	3
2990:241	Strength of Materials	3
		49

2940: Drafting and Computer Drafting Technology

<i>Courses at Wayne College</i>		
2020:222	Technical Report Writing	3
2030:151	Technical Math I	2
2030:152	Technical Math II	2
2040:240	Human Relations	3
3300:111	English Composition	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Social Science electives	3
		21
<i>Courses at Akron Campus</i>		
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2870:348	CNC Programming I	3
2880:110	Manufacturing Processes	3
2940:121	Technical Drawing I	3
2940:122	Technical Drawing II	3
2940:150	Drafting Design Problems	2
2940:170	Surveying Drafting	2
2940:200	Advanced Drafting	3
2940:210	Computer Aided Drawing I	3
2940:211	Computer Aided Drawing II	3

		Credits
2940:230	Mechanical Systems Drafting	3
2940:240	Electrical & Electronic Drafting	3
2940:245	Structural Drafting	2
2940:250	Architectural Drafting	3
2940:260	Drafting Technology Project	3
2980:223	Fundamentals of Map Production	3
2980:231	Building Construction	2
		48

2980: Land Surveying

Courses at Wayne College

2020:222	Technical Report Writing	3
2030:152	Technical Math II	2
2040:247	Survey of Basic Economics	3
3300:111	English Composition I	4
3350:100	Introduction to Geography	3
7600:106	Effective Oral Communications	3
		18

Courses at Akron Campus

2030:153	Technical Math III	2
2030:154	Technical Math IV	3
2030:260	Advanced Trigonometry	2
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2940:170	Surveying Drafting	3
2980:100	Introduction to Geomatics	2
2980:101	Basic Surveying I	2
2980:102	Basic Surveying II	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:xxx	Surveying electives	3
2985:101	Introduction to Geographic and Land Information Systems	3
2985:251	CST Seminar	1
3370:101	Introductory Physical Geology	4
		48

2985: Geographic and Land Information Systems (GIS/LIS)

Courses at Wayne College

3300:111	English Composition I	4
2020:222	Technical Report Writing	3
2030:152	Technical Mathematics II	2
2030:153	Technical Mathematics III	2
3350:100	Introduction to Geography	2
2540:263	Professional Communications & Presentations	3
	or	
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communications	3
	Area Studies & Cultural Diversity	2
	Natural Science (see adviser)	4
		23

Courses at Akron Campus

2030:260	Advanced Trigonometry	2
2820:131	Software Applications for Technology	1
2980:100	Introduction to Geomatics	2
2980:101	Basic Surveying I	2
2980:102	Basic Surveying II	2
2980:228	Boundary Surveying	3
2980:330	Applied Photogrammetry	3
2980:355	Computer Applications in Surveying	3
2985:101	Introduction to Geographic Info. Systems (GIS/LIS)	3
2985:201	Intermediate Geog. & Land Info. Systems (GIS/LIS)	3
2985:205	Building Geodatabases	3
2985:210	Geographic and Land Info. Systems Project (GIS/LIS)	3
2985:280	Topics in Professional Practice	2
2985:291	Geographic and Land Info. Sys. Internship	3
	Electives	8
		43

2990: Construction Engineering Technology

Courses at Wayne College

2020:222	Technical Report Writing	3
2040:242	American Urban Society	3
2040:247	Survey of Basic Economics	3
3300:111	English Composition I	4
7600:106	Effective Oral Communication	3
		16

Courses at Akron Campus

2030:153	Technical Math III	2
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		Credits
2030:154	Technical Math IV	3
2030:255	Technical Calculus I	3
2820:131	Software Applications for Technology	1
2820:161	Technical Physics: Mechanics I	2
2820:162	Technical Physics: Mechanics II	2
2820:163	Technical Physics: Electricity and Magnetism	2
2820:164	Technical Physics: Heat and Light	2
2940:210	Computer Aided Drawing I	3
2980:101	Basic Surveying I	2
2980:102	Basic Surveying II	2
2980:222	Construction Surveying	3
2990:125	Statics	3
2990:150	Blueprint 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
2990:241	Strength of Materials	3
2990:245	Cost Analysis and Estimating	3
	Technical electives	3
		50

GENERAL EDUCATION/TRANSFER PROGRAM

A student seeking a bachelor's degree studies in the University College before entering one of the degree-granting colleges of The University of Akron or transferring to another liberal arts college or university. While in the University College, the student acquires a wide foundation of general knowledge; develops intellectual abilities and interests; clarifies academic, personal and occupational objectives; and selects curricula that will equip the student to enter a degree-granting college prepared to undertake advanced work.

For the undecided student, this is the time to take courses from several areas in order to select a field most to their liking. In cases where the student is relatively certain of transferring to an institution other than The University of Akron, close contact should be maintained with an academic adviser so that the student's coursework at Wayne College is similar in nature to what is required at that college or university. Questions regarding substitutions and relevance of Wayne College courses to the student's program of study at another college or university can be worked out through a cooperative effort by the student, the academic adviser and the appropriate person at the college/university to which the student will be transferring.

General Education Program

The General Education Program of The University of Akron is the core of courses that provides the skills and knowledge considered essential for all graduates of the University. The General Education Program is designed to ensure that graduates will possess:

- the capacity for critical, independent thought
- a personal sense of values, tempered by tolerance and a regard for the rights of others
- the ability to use language effectively as a medium of both thought and expression
- the analytical skills necessary to make sound qualitative and quantitative judgments
- the ability to describe and explain differences in civilizations and cultures
- an understanding of the conditions that affect them as individuals and as members of society
- the capacity to evaluate intellectual and artistic achievements
- a knowledge of science, technology, and mathematics and their effects on human activities
- a knowledge of positive mental and physical health practices

Recommended Core Curriculum

Students pursuing a baccalaureate degree must complete the General Education Program, which consists of 42 credits

distributed among eight categories. Students are advised to select General Education courses in conjunction with courses needed for their major during the first years of study. **Students should work to complete their English, mathematics and speech requirements during their first year of study.** All students are responsible for meeting prerequisites for the necessary courses listed in the General Education Program. NOTE: Special departmental requirements may vary; students are encouraged to consult an adviser for specific information about selecting appropriate General Education courses from the recommended core curriculum.

English Composition: 7 credits – 2 courses

		<i>Credits</i>
2020:121	English or	4
3300:111	English Composition I	4
2020:222	Technical Report Writing or	3
3300:112	English Composition II	3

Mathematics: 3 credits

(Students enrolling in a higher-level mathematics course may use this course to meet their General Education requirement)

2030:152,153	Technical Math II, III (Must complete both courses. Only 3 credits apply toward fulfilling General Education requirement)	4
2030:161	Math for Modern Technology	4
3450:135	Excursions in Mathematics	3
3450:145	College Algebra	4
3450:210	Calculus with Business Applications	3
3450:240	Math Foundations for Early Childhood Educators	3
3470:250	Statistics for Everyday Life/Lab	4
3470:260	Basic Statistics/Lab	3
3470:261	Introduction to Statistics I	2
3470:262	Introduction to Statistics II	2

Natural Science: 8 credits minimum –

At least two courses, one of which must be a lab

(Students in higher-level science courses with a lab may use those courses to meet their General Education requirements.) Select one course from a minimum of two different sets.

Anthropology

3230:151	Human Evolution/Lab	4
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Biology

2780:106	Anatomy and Physiology for Allied Health I	3
2780:107	Anatomy and Physiology for Allied Health II	3
3100:103	Natural Science-Biology/Lab	4
3100:108	Introduction to Biological Aging	3

Chemistry

2820:105	Basic Chemistry/Lab	3
2820:111	Introductory Chemistry/Lab	3
2820:112	Introductory and Analytical Chemistry/Lab	3
3150:100	Chemistry and Society	3
3150:101	Chemistry for Everyone/Lab	4

Geology

3370:100	Earth Science	3
3370:101	Introductory Physical Geology/Lab	4
3370:103	Natural Science-Geology	3
3370:121-140	Concepts in Geology	1
3370:171	Introduction to Oceans	3
3370:200	Environmental Geology	3
3370:201	Exercises in Environmental Geology I	1
3370:203	Exercises in Environmental Geology II	1

Physics

2820:161	Technical Physics: Mechanics II/Lab	2
2820:162	Technical Physics: Mechanics II/Lab	2
2820:163	Technical Physics: Electricity and Magnetism/Lab	2
2820:164	Technical Physics: Heat and Light/Lab	2
3650:130	Descriptive Astronomy/Lab	4
3650:133	Music, Sound and Physics/Lab	4
3650:137	Light/Lab	4

Oral Communication: 3 credits

2540:265	Professional Communications and Presentation	3
7600:105	Introduction to Public Speaking or	3
7600:106	Effective Oral Communication	3

Social Science: 6 credits

(One course from two different sets for a minimum of 6 credits)

Credits

Set 1 - Economics

2040:247	Survey of Basic Economics	3
3250:100	Introduction to Economics	3
3250:200	Principles of Microeconomics	3
3250:244	Introduction to Economic Analysis	3

Set 2 - Geography

3350:100	Introduction to Geography	3
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Set 3 - Government/Politics

2040:242	American Urban Society	3
3700:100	Government and Politics in the United States	4
3700:150	World Politics and Governments	3

Set 4 - Psychology

2040:240	Human Relations	3
3750:100	Introduction to Psychology	3

Set 5 - Sociology/Anthropology

2040:244	Death and Dying	2
3230:150	Human Cultures	3
3850:100	Introduction to Sociology	4
5100:150	Democracy in Education	3

Set 6 - United States History

3400:250	United States History to 1877	4
3400:251	United States History since 1877	4

Set 7 - Science/Technology/Society

2040:241	Technology and Human Values	2
2040:243	Contemporary Global Issues	3
3240:250	Introduction to Archaeology	3
3600:125	Theory and Evidence	3

Humanities: 10 credits - 3 courses

All students are required to complete:

3400:210	Humanities in the Western Tradition I or	4
3400:221	Humanities in the World Since 1300	4

Students may select one course from two different sets below for a minimum of six additional credits:

Set 1 - Fine Arts

7100:210	Visual Art Awareness	3
7500:201	Exploring Music	3
7800:301	Introduction to Theatre Through Film	3
7900:210	Viewing Dance	3

Set 2 - Philosophy/Classics

3200:220	Introduction to the Ancient World	3
3200:230	Sports and Society in Ancient Greece and Rome	3
3200:289	Mythology of Ancient Greece	3
3600:101	Introduction to Philosophy	3
3600:120	Introduction to Ethics	3
3600:170	Introduction to Logic	3

Set 3 - Literature

3300:250	Classic and Contemporary Literature	3
3300:252	Shakespeare and His World	3
3300:281	Fiction Appreciation	3
Other literature in English Translation:		
3200:361	Literature of Greece	3
3580:350	Literature of Spanish-America in Translation	3

Set 4

3400:210	Humanities in the Western Tradition I or	4
3400:221	Humanities in the World Since 1300	4

Area Studies & Cultural Diversity: 4 credits - 2 courses

1840:300	Introduction to Women's Studies	3
2040:254	The Black Experience from 1619 to 1877	2
2040:256	Diversity in American Society	2
2040:257	The Black Experience 1877 to 1954	2
2040:258	The Black Experience 1954 to Present	2
3002:201	Introduction to Pan African Studies	3
3230:251	Human Diversity	3
3350:275	Geography of Cultural Diversity	2
3400:285	World Civilization: China	2

* 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.

NOTE: A student majoring in engineering is only required to take two credits from the Area Studies & Cultural Diversity area of General Education requirements.

Credits

3400:286	World Civilization: Japan	2
3400:287	World Civilization: Southeast Asia	2
3400:288	World Civilization: India	2
3400:289	World Civilization: Middle East	2
3400:290	World Civilization: Africa	2
3400:291	World Civilization: Latin America	2
7600:325	Intercultural Communication	3

Physical Education/Wellness: 1 credit

5540:120-183	Physical Education	0.5-1
5550:100	Introduction to Sport Studies	3
5550:150	Concepts of Health and Fitness	3
5550:194	Sports Officiating	2
5550:211	First Aid and Cardiopulmonary Resuscitation	2
5570:101	Personal Health	2
7400:133	Nutrition Fundamentals	3
7900:119/120	Modern Dance I/II	2
7900:124/125	Ballet I/II	2
7900:130/230	Jazz Dance I/II	2
7900:144	Tap Dance I	2

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 Ohio Board of Regents.

Courses in the Associate of Arts and Associate of Science include:

3300:111	English Composition I	4
3300:112	English Composition II	3
3400:210	Humanities in the Western Tradition I ¹	4
	or	
3400:221	Humanities in the World Since 1300	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity requirement ²	4
	Humanities requirement ¹	6
	Mathematics requirement ³	3
	Natural Science requirement ⁴	8
	Physical Education/Wellness requirement	1
	Social Sciences requirement ⁵	6
	Electives ⁶	<u>22</u>
		64

¹Students must have completed a minimum of 32 semester credits and have completed 3300:112 English Composition II before enrolling for 3400:210 or 3400:221. An additional six credits of humanities must also be completed.

²Students must complete two courses totaling four credits from the area studies/cultural diversity options. The medical technology and engineering students are required to take only one course. Please consult an adviser for specific options.

³The mathematics requirement varies by department. Please consult an adviser for specific requirements.

⁴A minimum of eight credits of natural science are required. One course must have a laboratory component; however, departmental requirements may vary. Please consult an adviser for specific information.

⁵Students may satisfy the General Education Requirement in the social sciences area by completing two courses totaling six credits from two different sets in the social science group. Please consult an adviser for specific information.

⁶In 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 or fine and applied 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.

BACHELOR'S 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 Wayne College adviser for further details.

3100: Biology

First Year		Credits
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	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:149	Precalculus Mathematics	<u>4</u>
		32
Second Year		Credits
3100:211	General Genetics	3
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3400:210	Humanities in the Western Tradition I	4
	Humanities requirement	6
	Area Studies/Cultural Diversity requirement	4
	Physical Education/Wellness	1
	Social Science requirement	<u>6</u>
		34

3150: Chemistry

First Year		Credits
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	4
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
3450:221	Analytic Geometry-Calculus I	4
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Social Science requirement	<u>6</u>
		34
Second Year		Credits
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3400:210	Humanities in the Western Tradition I	4
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
	Humanities requirement	<u>6</u>
		36

Biochemistry

First Year		Credits
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	4
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
3450:221	Analytic Geometry-Calculus I	4
7600:106	Effective Oral Communication	<u>3</u>
		35
Second Year		Credits
3100:211	General Genetics	3
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2

		<i>Credits</i>
3450:222	Analytic Geometry-Calculus II	4
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Social Science requirement	3
	Beginning Foreign Language	<u>8</u>
		36

3230: Interdisciplinary Anthropology*

<i>First Year</i>		
3230:150	Human Cultures	3
3300:111	English Composition I	4
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Mathematics requirement	3
	Social Science requirement	3
	Natural Science requirement	4
	Physical Education/Wellness	1
	Beginning Foreign Language	<u>8</u>
		32

<i>Second Year</i>		
3230:151	Human Evolution	4
3400:210	Humanities in the Western Tradition I OR	4
3400:221	Humanities in the World since 1300	4
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Concentration electives	<u>8</u>
		32

3250: Economics*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:215	Concepts of Calculus	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Natural Science requirement	8
	Physical Education/Wellness	1
		<u>35</u>

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Social Science requirement	3
	Electives	<u>3</u>
		32

Labor Economics*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:215	Concepts of Calculus	4
7600:106	Effective Oral Communication	3
	Natural Science requirement	8
	Physical Education/Wellness	1
		<u>27</u>

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Social Science requirement	3
	Electives	<u>3</u>
		26

3300: English*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	6
	Electives	<u>4</u>
		32

		<i>Credits</i>
<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
	Electives	<u>4</u>
		32

3350: Geography and Planning*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3350:100	Introduction to Geography	3
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	3
	Electives	<u>4</u>
		32

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
	Electives	<u>4</u>
		32

3370: Geology and Environmental Science*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II (optional for B.A.)	3
3150:154	Qualitative Analysis (optional for B.A. and B.S.)	2
3370:101	Introduction to Physical Geology	4
3450:149	Precalculus Mathematics	4
3450:221	Analytic Geometry-Calculus I (for B.S.)	4
	Physical Education/Wellness	1
	Social Science requirement	6
	Electives (for B.A.)	<u>4-9</u>
		35

<i>Second Year</i>		
3450:222	Analytic Geometry-Calculus II (for B.S.)	4
3370:102	Introduction to Historical Geology	4
3400:210	Humanities in the Western Tradition I**	4
7600:106	Effective Oral Communication	3
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement**	6
	Beginning Foreign Language	<u>8</u>
		33

Engineering Geology*

<i>First Year</i>		
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	4
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	<u>8</u>
		33

<i>Second Year</i>		
3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3150:266	Organic Chemistry Laboratory II	2
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Intermediate Foreign Language	6
	Social Science requirement	<u>3</u>
		34

Geophysics*

<i>First Year</i>		
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	4
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	<u>8</u>
		33

* 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.

<i>Second Year</i>		<i>Credits</i>
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Intermediate Foreign Language	6
	Humanities requirement	3
	Social Science requirement	6
		34

Environmental Science track*

<i>First Year</i>		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3300:111	English Composition I	4
3300:112	English Composition II	3
3370:100	Earth Science OR	
3370:200	Environmental Geology	3
3450:149	Precalculus Mathematics	4
	Physical Education/Wellness	1
	Social Science requirement	6
	Beginning Foreign Language	8
		33

<i>Second Year</i>		
3100:111	Principles of Biology I	4
3100:112	Principles of Biology II	4
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
		31

Earth Science track*

<i>First Year</i>		
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	4
3300:112	English Composition II	3
3450:149	Precalculus Mathematics	4
	Social Science requirement	6
	Beginning Foreign Language	8
		32

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3450:221	Analytic Geometry-Calculus I	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Physical Education/Wellness	1
	Mathematics/Science elective	4
	Intermediate Foreign Language	6
		32

3400: History

<i>First Year</i>		
3300:111	English Composition I	4
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
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	3
		33

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
3400:323	Europe from Revolution to World War, 1789-1914	3
3400:324	Europe from World War I to the Present	3
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
		34

3450: Mathematics*

<i>First Year</i>		<i>Credits</i>
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	6
	Beginning Foreign Language	8
		33

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Natural Science requirement	8
	Intermediate Foreign Language	6
		35

3470: Statistics*

<i>First Year</i>		
3300:111	English Composition I	4
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
	Natural Science requirements	8
	Physical Education/Wellness	1
	Social Science requirements	6
	or	
	Beginning Foreign Language	8
		33-35

Second Year
Students attending part time, or who are ineligible to take 3450:221 during the first year, can take additional requirements at Wayne College during the second year. Students attending full time should go to the Akron campus in the second year to take required mathematics prerequisite courses. Please consult a Wayne College adviser.

3460: Computer Science*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3460:209	Introduction to Computer Science	4
	Beginning Foreign Language	8
	Natural Science requirement	8
	Physical Education/Wellness	1
		32

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
3450:222	Analytic Geometry-Calculus II	4
7600:106	Effective Oral Communication	3
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Social Science requirement	6
		33

3600: Philosophy*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3600:101	Introduction to Philosophy	3
3600:120	Introduction to Ethics	3
7600:106	Effective Oral Communication	3
	Mathematics requirement	3
	Social Science requirement	6
	Beginning Foreign Language	8
		33

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3600:170	Introduction to Logic	3
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	3
	Natural Science requirement	8
	Physical Education/Wellness	1
	Intermediate Foreign Language	6
	Electives	3
		32

* 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.

3650: Physics*

<i>First Year</i>		<i>Credits</i>
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	6
	Beginning Foreign Language	8
		<u>33</u>

Second Year

3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Area Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
		<u>35</u>

3700: Political Science*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	3
	Electives	3
		<u>32</u>

Second Year

3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
	Electives	4
		<u>32</u>

Political Science/Criminal Justice*

<i>First Year</i>		
2220:100	Introduction to Criminal Justice	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3700:100	Government and Politics in the U.S.	4
7600:106	Effective Oral Communication	3
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	3
	Electives	3
		<u>27</u>

Second Year

3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Natural Science requirement	8
	Electives	4
		<u>26</u>

3750: Psychology*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3750:105	Professional and Career Issues in Psychology	1
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics requirement	3
	Physical Education/Wellness	1
	Electives	2
		<u>32</u>

Second Year

3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
	Electives	4
		<u>32</u>

3850: Sociology*

<i>First Year</i>		<i>Credits</i>
3300:111	English Composition I	4
3300:112	English Composition II	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	3
	Electives	3
		<u>32</u>

Second Year

3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
	Electives	4
		<u>32</u>

Sociology/Criminology & Law Enforcement*

<i>First Year</i>		
2220:100	Introduction to Criminal Justice	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Beginning Foreign Language	8
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	3
	Electives	3
		<u>35</u>

Second Year

3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Intermediate Foreign Language	6
	Natural Science requirement	8
	Electives	4
		<u>32</u>

4200: Chemical Engineering*

<i>First Year</i>		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		<u>34</u>

Second Year

3150:263	Organic Chemistry Lecture I	3
3150:264	Organic Chemistry Lecture II	3
3150:265	Organic Chemistry Laboratory I	2
3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
4300:201	Statics	3
		<u>33</u>

4250: Corrosion Engineering*

<i>First Year</i>		
3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3150:154	Qualitative Analysis	2
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		<u>36</u>

Second Year

3150:263	Organic Chemistry I Lecture	3
3150:264	Organic Chemistry II Lecture	3

* 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.

3150:265	Organic Chemistry I Laboratory	2
3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction 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	Introduction: Mechanics of Solids	3
		36

4300: Civil Engineering**First Year*

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		32

Second Year

3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction 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	Introduction to Mechanics of Solids	3
4600:203	Dynamics	3
	Humanities requirement	3
		34

4400: Electrical Engineering**First Year*

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		32

Second Year

3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction 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	Introduction to the Mechanics of Solids <u>OR</u>	3
4600:203	Dynamics	3
	Humanities requirement	6
	Area Studies/Cultural Diversity requirement	2
		36

4450: Computer Engineering**First Year*

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Lab	1
3250:244	Introduction to Economic Analysis	3
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		32

* 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.

3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3
3460:209	Introduction to Computer Science	4
3650:291	Elementary Classical Physics I	4
3650:292	Elementary Classical Physics II	4
	Area Studies/Cultural Diversity requirement	2
	Humanities requirement	6
		31

4600: Mechanical Engineering**First Year*

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		32

Second Year

3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction 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	Introduction: Mechanics of Solids	3
4600:203	Dynamics	3
	Humanities requirement	6
		37

4700: Mechanical Polymer Engineering**First Year*

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	4
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
	Physical Education/Wellness	1
	Social Science requirement	3
		32

Second Year

3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction 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	Introduction: Mechanics of Solids	3
4600:203	Dynamics	3
	Humanities requirement	6
		37

4800: Biomedical Engineering***Biomechanics track****Instrumentation, Signal and Imaging track***First Year*

3150:151	Principles of Chemistry I	3
3150:152	Principles of Chemistry I Laboratory	1
3150:153	Principles of Chemistry II	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:221	Analytic Geometry-Calculus I	4
3450:222	Analytic Geometry-Calculus II	4
3600:120	Introduction to Ethics	3
4100:101	Tools for Engineering	3
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
	Social Science requirement	3
		35

Second Year

3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3250:244	Introduction to Economic Analysis	3
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3450:223	Analytic Geometry-Calculus III	4
3450:335	Introduction to Ordinary Differential Equations	3

3650:291	Elementary Classical Physics I	Credits	4
3650:292	Elementary Classical Physics II		4
4300:201	Statics		3
4600:203	Dynamics		3
			<u>36</u>

Biomaterials and Tissue Engineering track*

<i>First Year</i>			
3150:151	Principles of Chemistry I		3
3150:152	Principles of Chemistry I Laboratory		1
3150:153	Principles of Chemistry II		3
3150:154	Qualitative Analysis		2
3300:111	English Composition I		4
3300:112	English Composition II		3
3450:221	Analytic Geometry-Calculus I		4
3450:222	Analytic Geometry-Calculus II		4
3600:120	Introduction to Ethics		3
4100:101	Tools for Engineering		3
7600:106	Effective Oral Communication		3
	Social Science requirement		3
			<u>36</u>

<i>Second Year</i>			
3100:200	Human Anatomy & Physiology I		3
3100:201	Human Anatomy & Physiology I Laboratory		1
3100:202	Human Anatomy & Physiology II		3
3100:203	Human Anatomy & Physiology II Laboratory		1
3150:263	Organic Chemistry I Lecture		3
3150:265	Organic Chemistry I Laboratory		2
3250:244	Introduction to Economic Analysis		3
3400:210	Humanities in the Western Tradition I OR		4
3400:221	Humanities in the World since 1300		4
3450:223	Analytic Geometry-Calculus III		4
3450:335	Introduction to Ordinary Differential Equations		3
3650:291	Elementary Classical Physics I		4
3650:292	Elementary Classical Physics II		4
4300:201	Statics		3
			<u>38</u>

5200: Early Childhood Education*

Early Childhood Licensure Option (age three through grade three inclusive)

<i>First Year</i>			
3100:103	Natural Science-Biology		4
3300:111	English Composition I		4
3300:112	English Composition II		3
3350:100	Introduction to Geography		3
3400:250/251	U.S. History to 1877/since 1877		4
	or		
3700:100	Government and Politics in the U.S.		4
3450:140	Fundamentals of Math for Primary Educators		3
3450:240	Math Foundations for Early Childhood Educators		3
7400:265	Child Development		3
7600:106	Effective Oral Communication		3
	Natural Science requirement		4
	Physical Education/Wellness		1
			<u>35</u>

<i>Second Year</i>			
3400:210	Humanities in the Western Tradition I		4
5100:200	Introduction to Education		3
5100:220	Educational Psychology		3
5200:215	The Child, the Family and the School		3
5500:230	Educational Technology		3
5500:245	Understanding Literacy Development and Phonics		3
5500:286	Teaching Multiple Texts through Genre		3
5610:225	Introduction to Exceptionalities		3
5610:450	Special Education Programs in Early Childhood		3
5610:459	Collaboration & Consultation in Schools		3
7400:270	Theory and Guidance of Play		3
7400:280	Early Childhood Curriculum Methods		3
			<u>37</u>

5250: Middle Level Education Program

Middle Level Licensure Option (grades 4 - 9 inclusive)*

<i>First Year</i>			
3100:103	Natural Science-Biology		4
3300:111	English Composition I		4
3300:112	English Composition II		3
3350:100	Introduction to Geography		3
3400:250/251	U.S. History to 1877/since 1877		4
	or		
3700:100	Government and Politics in the U.S.		4

* 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.

3470:260	Basic Statistics	Credits	3
7600:106	Effective Oral Communication		3
	Natural Science requirement		4
	Physical Education/Wellness		1
	Area of concentration courses		3
			<u>32</u>

<i>Second Year</i>			
3400:210	Humanities in the Western Tradition I		4
5100:200	Introduction to Education		3
5100:220	Educational Psychology		3
5500:230	Educational Technology		3
5500:245	Understanding Literacy Development and Phonics		3
5500:286	Teaching Multiple Texts through Genre		3
5610:225	Introduction to Exceptionalities		3
	Areas Studies/Cultural Diversity requirement		4
	Humanities requirement		6
			<u>32</u>

5300: Secondary Education*

Adolescent to Young Adult Licensure Option (middle, junior & senior high school)

<i>First Year</i>			
3300:111	English Composition I		4
3300:112	English Composition II		3
7600:106	Effective Oral Communication		3
	Mathematics requirement		3
	Natural Science requirement		8
	Physical Education/Wellness		1
	Social Science requirement		6
	Teaching Field(s) Course		
	or		
	Electives		4
			<u>32</u>

<i>Second Year</i>			
3400:210	Humanities in the Western Tradition I		4
5100:200	Introduction to Education		3
5100:220	Educational Psychology		3
5500:230	Educational Technology		3
5610:225	Introduction to Exceptionalities		3
	Areas Studies/Cultural Diversity requirement		4
	Humanities requirement		6
	Teaching Field(s) Courses		
	or		
	Electives		6
			<u>32</u>



5550: Physical Education*

Pre-K-12 track

First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5100:200	Introduction to Education	3
5100:220	Educational Psychology	3
5550:211	First Aid & CPR	2
5570:101	Personal Health	2
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
	Natural Science requirement	1
		31

Second Year		Credits
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
5500:230	Educational Technology	3
5610:225	Introduction to Exceptionalities	3
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
	Electives	4
		32

Athletic Training track*

First Year		Credits
2740:120	Medical Terminology	3
2740:230	Basic Pharmacology	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5550:150	Concepts of Health and Fitness	3
7600:106	Effective Oral Communication	3
7400:133	Nutrition Fundamentals	3
	Mathematics Requirement	3
		32

Second Year		Credits
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
5550:212	First Aid & CPR for the Professional Rescuer	2
5550:201	Kinesiology	3
5550:352	Strength and Conditioning Fundamentals	3
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science requirement	1
		31

Exercise Science* (all options, including Physiological Science, Strength and Conditioning, Pre-Physical Therapy and Fitness Management)

First Year		Credits
2740:120	Medical Terminology	3
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5550:150	Concepts of Health and Fitness	3
5550:212	First Aid & CPR for the Professional Rescuer	2
7400:133	Nutrition Fundamentals	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
		31

Second Year		Credits
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
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
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
		34

* 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.

Sports Studies*

First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5500:100	Introduction to Sports Studies	3
5550:150	Concepts of Health and Fitness	3
5550:212	First Aid & CPR for the Professional Rescuer	2
5570:101	Personal Health	2
7400:133	Nutrition Fundamentals	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
		33

Second Year		Credits
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
5550:160	Introduction to Coaching	3
5570:202	Stress, Lifestyle and Your Health	3
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
	Electives	3
		31

5610: Special Education

First Year		Credits
3100:265	Introduction to Human Physiology/Lab	4
3150:101	Chemistry for Everyone/Lab	4
	or	
3150:110	Introduction: General, Organic, and Biochemistry I and	3
3150:111	Introduction: General, Organic, and Biochemistry I Lab	1
3300:111	English Composition I	4
3330:112	English Composition II	3
3450:145	College Algebra	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5550:211	First Aid & CPR	2
7400:265	Child Development	3
7600:105	Introduction to Public Speaking	3
	or	
7600:106	Effective Oral Communication	3
		34

Second Year		Credits
3400:210	Humanities in the Western Tradition I	4
5100:200	Introduction to Education	3
5100:220	Educational Psychology	3
5500:230	Educational Technology	3
5500:245	Understanding Literature Development and Phonics	3
5500:286	Teaching Multiple Texts Through Genre	3
5610:225	Introduction to Exceptionalities	3
5610:450	Special Education Programming: Early Childhood	3
5610:459	Collaboration & Consultation in Schools and Community	3
5610:467	Management Strategies in Special Education	3
7100:210	Visual Arts Awareness	3
	or	
7500:201	Exploring Music: Bach to Rock	3
	Humanities Requirement	3
		37



6000: Business Administration
Accounting, Finance, Management, Marketing,
Advertising, and International Business Options

<i>First Year</i>		<i>Credits</i>
3300:111	English Composition I	4
3300:112	English Composition II	3
3450:145	College Algebra	4
3450:210	Calculus with Business Applications	3
	or	
3450:215	Concepts of Calculus	4
3230:150	Human Cultures	4
3750:100	Introduction to Psychology	3
	or	
3850:100	Introduction to Sociology	4
7600:106	Effective Oral Communication	3
	Natural Science requirement	8
	Physical Education/Wellness	1
	Electives	1-4
		32

<i>Second Year</i>		
3250:200	Principles of Microeconomics	3
3250:201	Principles of Macroeconomics	3
3400:210	Humanities in the Western Tradition I	4
6200:201	Accounting Principles I	3
6200:202	Accounting Principles II	3
6200:250	Spreadsheet Modeling & Decision Analysis	3
6400:220	Legal and Social Environment of Business (except Accounting majors)	3
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
		32

7400: Family and Consumer Sciences*

Child Development Option*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7400:133	Nutrition Fundamentals	3
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
	Foreign Language/Language alternative courses	8
		34

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
7400:270	Theory and Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	3
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science requirement	8
	Physical Education/Wellness	1
	Foreign Language/Language alternative courses	6
		35

Child Life Specialist*

<i>First Year</i>		
2740:120	Medical Terminology	3
3150:101	Chemistry for Everyone	4
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:250	Statistics for Everyday Life	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7400:133	Nutrition Fundamentals	3
7400:265	Child Development	3
	Physical Education/Wellness	1
		32

<i>Second Year</i>		
2040:256	Diversity in American Society OR	2
3230:251	Human Diversity	3
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Laboratory	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3600:120	Introduction to Ethics	3
7400:270	Theory and Guidance of Play	3
7400:280	Early Childhood Curriculum Methods	3
7600:106	Effective Oral Communication	3
	Area Studies and Cultural Diversity Requirement	1-2
	Humanities Requirement	3
		31

Dietetics Option*

<i>First Year</i>		<i>Credits</i>
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry I Lab	1
3150:112	Introduction to General, Organic and Biochemistry II	3
3150:113	Introduction to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:260	Basic Statistics	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Physical Education/Wellness	1
		32

<i>Second Year</i>		
3100:130	Principles of Microbiology	3
3100:200	Human Anatomy and Physiology I	3
3100:201	Human Anatomy and Physiology I Laboratory	1
3100:202	Human Anatomy and Physiology II	3
3100:203	Human Anatomy and Physiology II Laboratory	1
3400:210	Humanities in the Western Tradition I	4
6200:201	Accounting Principles I	3
	or	
2420:211	Basic Accounting I	3
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Electives	4
		32

Education Licensure Option*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
5100:200	Introduction to Education	3
5100:220	Educational Psychology	3
7400:133	Nutrition Fundamentals	3
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
		32

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
5500:230	Educational Technology	3
5610:225	Introduction to Exceptionalities	3
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science requirement	8
	Electives	4
		32

Family and Child Development Option*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3750:230	Developmental Psychology (Family Development Option only)	4
3850:100	Introduction to Sociology	4
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Mathematics requirement	3
	Physical Education/Wellness	1
	Electives	4
		32

<i>Second Year</i>		
3400:210	Humanities in the Western Tradition I	4
7400:270	Theory and Guidance of Play (Child Development Option Only)	3
7400:280	Early Childhood Curriculum Methods	3
	(Child Development Option only)	
7750:276	Introduction to Social Welfare (Family Development Option Only)	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Natural Science requirement	8
		32

Family Development Option*

<i>First Year</i>		
3300:111	English Composition I	4
3300:112	English Composition II	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7400:133	Nutrition Fundamentals	3
7400:265	Child Development	3
7600:106	Effective Oral Communication	3
	Mathematics Requirement	3
	Foreign Language/Language alternative courses	8
		34

* 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.

Second Year		Credits
3400:210	Humanities in the Western Tradition I OR	
3400:221	Humanities in the World since 1300	4
3750:230	Developmental Psychology	4
	Area Studies and Cultural Diversity Requirement	4
	Humanities Requirement	6
	Natural Science requirement	8
	Physical Education/Wellness	1
	Foreign Language/Language alternative courses	6
		33

Second Year		Credits
3100:103	Natural Science-Biology	4
3400:210	Humanities in the Western Tradition I	4
7600:106	Effective Oral Communication	3
7750:---	Social Work requirements	4
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
	Natural Science requirement	4
	Social Science elective	3
		32

Food and Environmental Nutrition Option*

First Year		Credits
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry I Lab	1
3150:112	Introduction to General, Organic and Biochemistry II	3
3150:113	Introduction to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:260	Basic Statistics	3
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7400:133	Nutrition Fundamentals	3
7600:106	Effective Oral Communication	3
	Economics requirement	3
		34

Second Year		Credits
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
3400:210	Humanities in the Western Tradition I	4
6200:201	Accounting Principles I	3
6300:201	Introduction to Entrepreneurship	3
	Areas Studies/Cultural Diversity requirement	4
	Humanities requirement	6
		31

7600: Communication* Organization Communication, Public Relations, Radio & Television, Interpersonal & Public Communication, News, and Media Production Options

First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
7600:102	Survey of Mass Communication	3
7600:106	Effective Oral Communication	3
7600:115	Survey of Communication Theory	3
	Mathematics requirement	3
	Physical Education/Wellness	1
	Social Science requirement	6
	Elective (typing/word processing recommended)	6
		32

Second Year		Credits
3400:210	Humanities in the Western Tradition I	4
	Areas Studies/Cultural Diversity Requirement	4
	Communication Major Emphasis Courses	6
	Foreign Language Courses	
	or	
	Language Alternative Courses	8
	Humanities requirement	6
	Natural Science requirement	8
		36

7750: Social Work*

First Year		Credits
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:260	Basic Statistics	3
3700:100	Government and Politics in the United States	4
3750:100	Introduction to Psychology	3
3850:100	Introduction to Sociology	4
7750:270	Poverty and Minority Issues	3
7750:275	Introduction to Social Work Practice	3
7750:276	Introduction to Social Welfare	3
	Economics requirement	3
	Physical Education/Wellness	1
		34

8200: Nursing (Basic Program)

First Year		Credits
3100:200	Human Anatomy & Physiology I	3
3100:201	Human Anatomy & Physiology I Lab	1
3100:202	Human Anatomy & Physiology II	3
3100:203	Human Anatomy & Physiology II Lab	1
3150:110	Introduction to General, Organic and Biochemistry I	3
3150:111	Introduction to General, Organic and Biochemistry I Lab	1
3150:112	Introduction to General, Organic and Biochemistry II	3
3150:113	Introduction to General, Organic and Biochemistry II Lab	1
3300:111	English Composition I	4
3300:112	English Composition II	3
3470:250	Statistics for Everyday Life	4
	or	
3470:260	Basic Statistics	3
3750:100	Introduction to Psychology	3
7600:106	Effective Oral Communication	3
8200:100	Introduction to Nursing	1
		34

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.

Second Year		Credits
3100:130	Principles of Microbiology	3
3400:210	Humanities in the Western Tradition I	4
3600:120	Introduction to Ethics	3
3750:230	Developmental Psychology	4
3850:100	Introduction to Sociology	4
	or	
3230:150	Human Cultures	3
7400:316	Science of Nutrition	4
	Humanities Requirement	3
	Area Studies/Cultural Diversity Requirement	4
	Physical Education	1
		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.



Section TWO

Course Facts

The yearly schedule of courses at 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 STUDENT SUCCESS SEMINAR** 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.

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.

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. 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. 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: 2010:052 or placement by advisor. 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.

† 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.

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 *2 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.

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.

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.

CRIMINAL JUSTICE TECHNOLOGY

2220:

100 INTRODUCTION 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, professionalization, prevention.

SOCIAL SERVICES TECHNOLOGY

2260:

121 SOCIAL SERVICE TECHNIQUES I *3 credits*
Prerequisite: 2260:171, or permission. Preparation to provide helping interventions as social work assistants. Focuses on helping relationships, helping and problem-solving processes, social work values, attending skills, and interviewing techniques.

122 SOCIAL SERVICE TECHNIQUES II *3 credits*
Corequisite: 2260:121. Focuses on enhancing self-awareness. Provides basic knowledge about social group work and opportunities for students to practice beginning group work techniques by co-facilitating self-awareness exercises.

131 INTRODUCTION TO DEVELOPMENTAL DISABILITIES *2 credits*
This course provides an overview of developmental disabilities. content includes definition, classifications, causes, and characteristics of disabilities; legislation/regulations; service delivery models; and prevention.

150 INTRODUCTION TO GERONTOLOGICAL SERVICES *3 credits*
Basic orientation to gerontology and role of community service technician in service delivery to aged. Topics include social, biological, economic and psychological aspects of aging; national and state legislation; services and service provider.

171 CAREER ISSUES IN SOCIAL SERVICES I *1 credit*
Corequisite: 7750:276. Orients students to human service education and introduces them to the knowledge, skills, and attitudes essential for future educational and career success.

172 CAREER ISSUES IN SOCIAL SERVICES II *1 credit*
Prerequisite: 2260:171; corequisite: 2260:122. Explores strategies to promote optimal effectiveness as a helper. Topics include time and stress management, burnout, self-care, professional development, ethical dilemmas, record-keeping, and termination.

223 SOCIAL SERVICE TECHNIQUES III *3 credits*
Prerequisite: 2260:122; corequisite: 2260:172 or 273. Provides knowledge base for working with individuals and families in crisis. Students apply crisis theory to developmental and situational crises and practice crisis intervention techniques.

231 HABILITATION PROGRAMMING *2 credits*
Prerequisite: 2260:131. This course examines components of individualized plans, implementation of such plans, and legal issues. Content includes types of habilitation programming and the role of self-determination.

233 BEHAVIOR SUPPORT *2 credits*
Prerequisite: 2260:131. This course examines the components of behavior support. Course content includes various types of behavior support programs and techniques.

251 COMMUNITY SERVICES FOR SENIOR CITIZENS *3 credits*
Prerequisite: 2260:150. A study of national and community resources for social service delivery to senior citizens. Specific agencies, program needs, and senior citizens and resultant services.

260 INTRODUCTION TO ADDICTION *3 credits*
An overview of the continuum of use, abuse and dependency; theories of addiction; the impact of addiction on society; and the implications for professional practice.

266 SOCIAL SERVICE TECHNIQUES WITH CHILDREN AND FAMILIES *3 credits*
Prerequisite: 2260:122. Preparation for working with children individually and in their families. Content includes child development in relation to environmental factors, social policy concerns, and helping interventions.

273 CAREER ISSUES IN SOCIAL SERVICES III *1 credit*
Prerequisites: 2260:171; corequisite 2260:122. Prepares students for field work and future employment. Topics include resume development, job interviews and search strategies, working in organizations, supervision, safety, professionalism, and licensure requirements.

275 THERAPEUTIC ACTIVITIES *3 credits*
Prerequisite: 2260:150. Preparation for planning, adapting, and implementing individual and group therapeutic activities to meet diverse psychosocial needs. Emphasizes program planning, motivational techniques, and group work skills.

276 PRACTICUM IN THERAPEUTIC ACTIVITIES *1 credit*
Prerequisite: 2260:150; corequisite: 2260:275. Supervised 90-hour experience in a long-term care facility observing, planning, and providing therapeutic activities. Students practice program planning, documentation, and group work skills.

285 SOCIAL SERVICES PRACTICUM *1-2 credits*
Prerequisite: 2260:293, or permission. Supervised fieldwork in a human service organization with a bi-weekly seminar. Students apply classroom learning to helping situations, test career interests, and gain practical, on-the-job experience.

287 PRACTICUM IN THERAPEUTIC ACTIVITIES AND LONG-TERM CARE *1-2 credits*
Prerequisites: 2260:122, 275 and 293 or permission; corequisite: 2260:294 or permission. Supervised fieldwork in a long-term care facility that includes direct experience with one-on-one and group therapeutic activities, assessment, documentation, interdisciplinary care planning, and social services.

289 PRACTICUM IN GERONTOLOGICAL SOCIAL SERVICES *1-2 credits*
Prerequisites: 2260:122, 150 and 293 or permission; corequisite: 2260:294 or permission. Supervised field placement in a community-based or institutional setting that focuses primarily on providing social services to older adults and their families.

- 290 SPECIAL TOPICS: COMMUNITY SERVICES TECHNOLOGY** *1-3 credits*
Prerequisite: Permission. Selected topics or subject areas of interest in community services technology.
- 293 FIELD WORK ORIENTATION** *1 credit*
Prerequisite: 2260:172 or permission. Corequisite: 2260:122, 273, or permission. Students complete a self-assessment and application process for their first practicum and practice job search strategies and workplace competencies to prepare for and arrange it.
- 294 FIELD WORK EVALUATION** *1 credit*
Prerequisite: 2260:273, 293. Corequisite: 2260:285, or 287, or 289. Students complete assessments to demonstrate program competencies and evaluate their first practicum to assist in determining appropriate learning experiences for their second practicum.

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 INTRODUCTION 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.
- 170 APPLIED MATHEMATICS FOR BUSINESS** *3 credits*
Prerequisite: Completion of 2010: 052 with a grade of C or better or placement test. Mathematics of business including retail pricing, simple and compound interest, discounts, mortgages, payroll, annuities, depreciation, inventory, insurance, taxes, stocks and bonds, and basic statistics.
- 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** *4 credits*
Prerequisite: 2420:212. 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: 2040:247, 2420:171 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.
- 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 TECHNOLOGY** *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 ETHICAL ISSUES IN THE WORKPLACE** *3 credits*
Prerequisites 2020:121 and 222 or 3300:111 and 112 or equivalent. Ethical principles (liability, safety, quality, honesty, confidentiality) in workplace communication. Case studies and projects explore global, legal, and technological issues affecting employee interaction.
- 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 COMMUNITY SERVICE AND LEADERSHIP IN A GLOBAL CONTEXT** *3 credits*
Prerequisite: 300 or permission. Theory and best practices in community service and leadership in local, national, and global settings. Evaluate leadership skills and identify opportunities for future contributions.
- 401 LEADING PROJECT TEAMS IN TECHNICAL ORGANIZATIONS** *3 credits*
Prerequisite: 310. Examines and applies the operational human aspects of project team management from conception to completion.

- 402 ASSESSING AND IMPROVING TECHNICAL ORGANIZATIONS** 3 credits
Prerequisites: 3470:250 or 260; and 2420:310. Methods for conducting business process assessments and evaluating results in technical organizations/settings.
- 420 HUMAN CAPITAL DEVELOPMENT FOR TECHNICAL ORGANIZATIONS** 3 credits
Prerequisite: 310. Overview of current theories and best practices in human capital development.
- 421 SENIOR SEMINAR IN ORGANIZATIONAL SUPERVISION** 3 credits
Prerequisite: 402. Integration and application of professional knowledge, skills, and technologies to organizational issues.

COMPUTER INFORMATION SYSTEMS

2440:

- 105 INTRODUCTION TO COMPUTERS AND APPLICATION SOFTWARE** 3 credits
Overview of basic computer concepts, electronic mail and Internet technologies. Introductory-level instruction and hands-on experience in word processing, spreadsheet, and presentation software.
- 121 INTRODUCTION 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.
- 141 WEB SITE ADMINISTRATION** 3 credits
Prerequisite: 2440:105 or pass placement test. Provides step-by-step Web site administration guides such as selecting software and hardware, dealing with ISP's, domain name registration, structuring and updating content, analyzing security and legal issues, and implementing marketing strategies.
- 145 INTRODUCTION 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.
- 212 MULTIMEDIA AND INTERACTIVE WEB ELEMENTS** 3 credits
Prerequisite: 2440:140. Reviews and demonstrates Web tools and techniques like RealAudio, Shockwave, QuickTime, video conferencing and other dynamic elements to enhance Web-based communication. Multimedia software may change to reflect current technology.
- 245 INTRODUCTION TO DATABASES FOR MICROS** 3 credits
Prerequisite: 2440:105 or pass placement test. Explains fundamental database concepts and provides hands-on experience using database software.

- 247 HARDWARE SUPPORT** 3 credits
Prerequisite: Admission to program or permission. This course introduces the student to the basic skills required to troubleshoot, maintain and repair computers.
- 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:

- 240 MEDICAL CODING I - 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: 2530:241, 242, 243; 3300:111. Includes management of medical personnel, practice enhancement, marketing, finance, facilities, purchasing, risk management, medical law and ethics, as well as aspects of managed care contract evaluation, negotiation, participation and compliance.
- 257 HEALTH CARE OFFICE FINANCE** 2 credits
Prerequisite: 2530:243, 2420:211, 2440:125. Helps students attain a level of understanding of the financial aspects of medical practice management. Basic accounting terminology, the revenue cycle, relative value units, budgeting, and financial management and reporting.

- 259 INTERNSHIP ORIENTATION** *1 credit*
Prerequisite: permission. Prepares student for internship in Health Care Office Management and Health Care Administrative Assistant programs. Students will complete a self-assessment, demonstrate workplace competencies, and practice job search strategies.
- 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.
- 282 MEDICAL TRANSCRIPTION AND EDITING** *3 credits*
Prerequisite: 2540:119, 144, 2740:120; corequisite: 2740:121, 230. Instruction on interpreting and transcribing medical language and healthcare documentation. Emphasis on medical terminology, pronunciation, punctuation, spelling, word usage, and English grammar skills.
- 284 MEDICAL OFFICE TECHNIQUES** *2 credits*
This course will guide the student through a variety of clinical related skills performed in the physician office. The materials are designed to assist the student in meeting the competencies developed by four national organizations.
- 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.

of spreadsheets, outlines, advanced file management, macros, merges, labels and graphics.

- 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.
- 253 ADVANCED WORD PROCESSING** *3 credits*
Prerequisite: 2540:144 or 151 or equivalent. To increase student's ability to do office-style production keyboarding with minimal supervision. Advanced word processing techniques are taught. Minimum requirement: 50 words a minute with a maximum of 5 errors for 5 minutes.
- 263 PROFESSIONAL COMMUNICATION AND PRESENTATIONS** *3 credits*
Prerequisite: 2020:121 or 3300:111. Application of the principles of communication in speeches, business presentations, group discussions, and business documents.
- 271 DESKTOP PUBLISHING** *3 credits*
Corequisite: 2540:140 or permission. Desktop publishing software used to create printed materials such as newsletters, brochures, business forms, and resumes. Course addresses design/layout decision and editing for the office worker.
- 273 MICROSOFT POWERPOINT** *2 credits*
Prerequisite: 140 or 143 or permission. Introduction to the basic principles of preparation, design, and organization necessary to produce exciting and effective PowerPoint presentations using Microsoft PowerPoint.
- 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.

COMPUTER AND BUSINESS TECHNOLOGY 2540:

- 119 BUSINESS ENGLISH** *3 credits*
Fundamentals of English language with emphasis on grammatical correctness, acceptable usage, spelling and punctuation. Limited writing primarily involves choice of precise words and effective sentence structure with some attention to paragraph development.
- 121 INTRODUCTION TO OFFICE PROCEDURES** *3 credits*
Introduction to concepts regarding role of office worker, human relations, communications, productivity, reference materials, technological advances in processing information and employment opportunities.
- 123 MICROSOFT OUTLOOK** *2 credits*
Prerequisite: placement by adviser. An introduction to Microsoft Outlook software. Students will learn how to use Outlook for e-mail, contacts, calendaring, making appointments, and instant messaging.
- 136 SPEECH RECOGNITION TECHNOLOGY** *2 credits*
Prerequisite: placement by adviser. Course will present the features of speech-recognition software to assist students to increase their productivity at computer tasks while improving their communication skills.
- 138 PROJECT MANAGEMENT** *2 credits*
Prerequisite: placement by adviser. Introductory course that examines elements of projects and project management terminology. Also provides an understanding of Microsoft Project software for managing and evaluating projects.
- 140 KEYBOARDING FOR NON-MAJORS** *2 credits*
Beginning keyboarding for the non-secretarial student. Fundamentals in the operation of the keyboard; application emphasis on individual student needs such as resumes, application letters and forms, term reports, abstracting, etc. Credit not applicable toward associate degree in Computer and Business Technology.
- 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.
- 144 MICROSOFT WORD: ADVANCED** *2 credits*
Prerequisite: 2540:143 or permission. Intermediate and advanced skills of Microsoft Word to include tables, importation

COMPUTER NETWORK ENGINEERING TECHNOLOGY 2600:

- 100 BASIC ELECTRONICS FOR TECHNICIANS** *5 credits*
Corequisites: 2030:151 and 152. Fundamentals of electrical/electronic operations, linear devices and instrumentation essential to electrical/electronics maintenance and troubleshooting. Laboratory.
- 125 DIGITAL ELECTRONICS FOR TECHNICIANS** *4 credits*
Prerequisite: 2600:100. Mathematical principles of electronic switching for logic-based systems and examination of methods of switching syntheses.
- 160 PERSONAL COMPUTER SERVICING** *4 credits*
Prerequisite: 2600:100, 2440:145. Techniques for isolating and correcting faults in personal computers including the use of software diagnostic routines and electronic test equipment.
- 180 MICROPROCESSOR SERVICE PRACTICUM** *2 credits*
Corequisite: 2600:160. Work experience in the repair of microprocessor-based equipment using failed or malfunctioning equipment.
- 185 MICROPROCESSOR SERVICE PRACTICUM SEMINAR** *1 credit*
Corequisite: 2600:180. Integrates on-the-job technical experience acquired in 2600:180 with the fundamental concepts and skills acquired through coursework.

- 240 MICROSOFT DESKTOP ENVIRONMENT** *3 credits*
Corequisite: 2600:270 or permission. Provides the knowledge and skills to install, configure, administer, and troubleshoot the Microsoft Windows Desktop environment.
- 242 MICROSOFT NETWORKING II** *1-4 credits*
Prerequisite: 2600:270 or permission. Provides the knowledge and skills to manage accounts, maintain server resources, monitor server performance, and safeguard data in a Microsoft Windows Server environment.
- 244 MICROSOFT NETWORKING III** *1-4 credits*
Prerequisite: 2600:240 or 242. Provides the knowledge and skills to plan and maintain a Windows Server network infrastructure including troubleshooting TCP/IP, DHCP, DNS, WINS and network access.
- 245 NETWORK OPERATING SYSTEMS** *3 credits*
Prerequisite: 2600:270. Examination of contemporary network operating systems. Provides skills to competently install and perform entry level management tasks. Includes troubleshooting TCP/IP, DHCP, DNS, WINS, and Network Access. Laboratory.
- 246 MICROSOFT NETWORKING IV** *1-4 credits*
Prerequisite: 2600:240 or 242. Provides the knowledge and skills to implement, manage, and maintain a Microsoft Windows Server network infrastructure including routing, securing Internet traffic, and managing network access.
- 252 MICROSOFT ACTIVE DIRECTORY** *3 credits*
Prerequisite: 2600:240 or 242. Provides the knowledge and skills to plan, implement, and troubleshoot Microsoft Windows Server Active Directory service infrastructure including domain structure, site replication, and account strategies. Laboratory.
- 254 MICROSOFT NETWORKING VI** *1-4 credits*
Prerequisite: 2600:240 or 242. Provides the knowledge and skills to design a Microsoft Active Directory service and network infrastructure for a Microsoft Windows Server environment.
- 256 MICROSOFT NETWORKING VII** *1-4 credits*
Prerequisite: 2600:240 or 242. Provides the knowledge and skills to analyze business requirements for security and to design a security solution that meets those requirements in a Windows network environment.
- 261 NETWORK SECURITY** *1-4 credits*
Prerequisite: 2600:270 or permission. Provides the knowledge and skills to identify, troubleshoot, and implement network security, such as: general security concepts, communications security, infrastructure security, cryptography, and operational/organizational security.
- 262 LINUX NETWORKING** *1-4 credits*
Prerequisite: 2600:270 or permission. Provides the knowledge and skills needed to install, configure, administer, and troubleshoot Linux network operating systems including: licenses, administration, network configuration, and network protocol and security management.
- 270 INTRODUCTION TO NETWORK TECHNOLOGIES** *3 credits*
Prerequisite: 2440:145. Provides students with an excellent foundation upon which to build their network training. Covers basic terms and concepts of computer networking.
- 272 NETWORK HARDWARE I** *3 credits*
Corequisite: 2600:270. Study of contemporary networking hardware used in Local Area Networks and Wide Area Networks. Emphasis on routers and routing protocols. Use of simulation software is encouraged. Laboratory.
- 274 NETWORK HARDWARE II** *3 credits*
Prerequisite: 2600:272. A second course in contemporary networking hardware. Emphasis on switches used in LANs and routers used in WANs. Use of simulation software is encouraged. Laboratory.
- 276 ADVANCED NETWORK TECHNOLOGIES** *3 credits*
Prerequisite: 2600:274. Examination of convergence technologies and the integration into LAN/WAN environments. Wireless networking and Voice over IP (VoIP) will be studied. Use of simulation software is included. Laboratory.

- 280 FIELD EXPERIENCE IN NETWORKING AND COMPUTER SUPPORT** *1-3 credits*
Prerequisites: permission. Paid field work activity in data processing or computer networking applications related to an occupational objective. One credit requires 180 hours of work. May be repeated up to 3 credits maximum.
- 290 SPECIAL TOPICS: COMPUTER SERVICE AND NETWORK TECHNOLOGY** *1-5 credits*
Prerequisite: Permission. This course is designed to allow for special topics and subject areas of particular interest to students.

PARAPROFESSIONAL EDUCATION

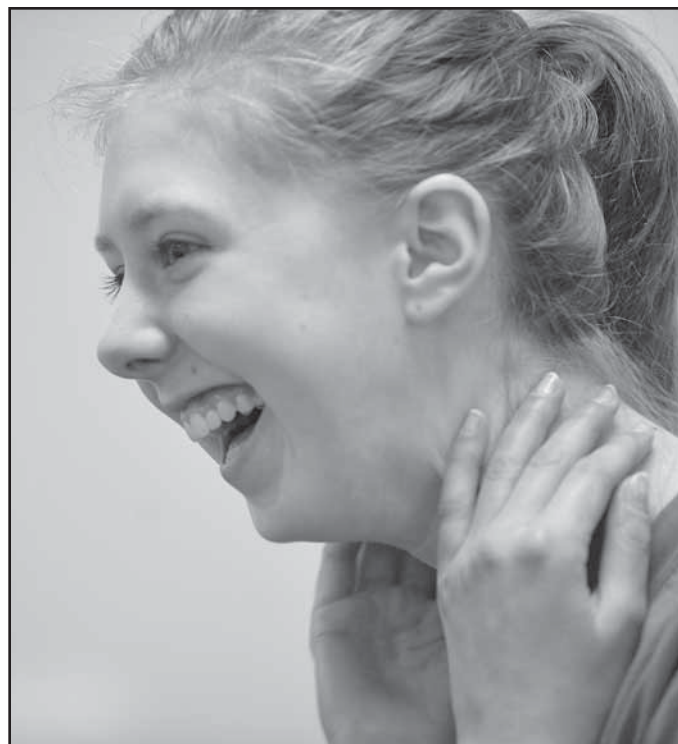
2650:

- 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** *3 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 laboratory techniques. Laboratory.
- 161 TECHNICAL PHYSICS: MECHANICS I** *2 credits*
Corequisite: 2030:153. Principles of mechanics that include motion, vectors, forces, equilibrium; also significant figures and unit conversions. Laboratory.
- 162 TECHNICAL PHYSICS: MECHANICS II** *2 credits*
Prerequisite: 2820:161; 2030:153. Principles of mechanics that include work, power, conservation of energy, rotational motion, torque. Laboratory.
- 163 TECHNICAL PHYSICS: ELECTRICITY AND MAGNETISM** *2 credits*
Prerequisite: 2820:161; corequisite: 2030:153. Principles of electricity and magnetism. Electrostatics, basic direct current circuits, magnetism and electromagnetism, alternating currents, basic AC circuits. Laboratory.
- 164 TECHNICAL PHYSICS: HEAT AND LIGHT** *2 credits*
Prerequisite: 2820:161; corequisite: 2030:153. Topics include thermal behavior of matter, thermodynamics, light, geometric and physical optics. Introduction to atomic and nuclear physics. Laboratory.MANUFACTURING

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. Laboratory and class instruction illustrate concepts of living organisms with emphasis on mankind's position in, and influence on, the environment.
- 108 INTRODUCTION TO BIOLOGICAL AGING** *3 credits*
Prerequisite: 3100:103. Survey of normal anatomical and physical changes in aging and associate diseases. For students in gerontological programs at Wayne College. 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). Laboratory.

- 112 PRINCIPLES OF BIOLOGY II** *4 credits*
Prerequisite: 3100:111. Animal diversity; nutrients, gas exchange, transport, homeostasis, control in plants and animals; behavior; ecology. (3100:111, 112 are an integrated course for biology majors). Laboratory.
- 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. Laboratory.
- 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*
Laboratory 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*
Laboratory 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. Principles of heredity, principles of genetics.
- 212 GENERAL GENETICS LABORATORY** *1 credit*
Prerequisite or corequisite: 3100:211. Laboratory experiments in genetics. Emphasis on scientific method and techniques in molecular biology.
- 217 GENERAL ECOLOGY** *3 credits*
Prerequisite: 3100:112. 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. Laboratory. Not available for credit toward a degree in biology.

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 laboratory instruction in the fundamental concepts of chemistry for general education and middle-level licensure for pre-service and in-service teachers.
- 110 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY 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, radiation.
- 111 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY LABORATORY I** *1 credit*
Prerequisite/Corequisite: 3150:110. Sequential. Laboratory course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry.
- 112 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY 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, radiation.

- 113 INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY LABORATORY II** *1 credit*
Prerequisite/Corequisite: 3150:112. Sequential. Laboratory 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 LABORATORY** *1 credit*
Prerequisite or corequisite: 3150:151. Laboratory course applying principles of thermodynamics, chemical analysis, and laboratory 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. Laboratory course applying principles of chemical equilibrium to inorganic qualitative analysis.
- 263,4 ORGANIC CHEMISTRY LECTURE I, 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, II** *2 credits each*
Sequential. Prerequisite: 3150:154; Pre/corequisites: 3150:263 (for 265); Prerequisite: 3150:265 (for 266). Laboratory experiments to develop techniques in organic chemistry and illustrate principles.

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 laboratory using interactive computer programs, casts and Anthropology's cultural collection.
- 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 INTRODUCTION 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** *5 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** *4 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, 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. This course cannot be used to meet major requirements in English.
- 252 SHAKESPEARE AND HIS WORLD** *3 credits*
Prerequisites: 3300:111 and 112 or equivalents, and 3400:210, or permission of the instructor. 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. This course cannot be used to meet major requirements in English.
- 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 INTRODUCTION 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 INTRODUCTION 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. 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.
- 377 ADVANCED POETRY WRITING** *3 credits*
Prerequisites: 3300:277 and 111 and 112 or their equivalents, or permission of the instructor. Advanced practice in writing poems, emphasis in shaping publishable works. Survey of market. Class discussion of student poems, individual conferences with instructor.

GEOGRAPHY AND PLANNING

3350:

- 100 INTRODUCTION 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.

GEOLOGY AND ENVIRONMENTAL SCIENCE

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. Laboratory.
- 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. Laboratory.
- 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 INTRODUCTION 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, laboratory 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.

HISTORY

3400:

- 210 HUMANITIES IN THE WESTERN TRADITION I: ANTIQUITY TO THE RENAISSANCE** *4 credits*
Prerequisite: 32 credit hours completed; 3300:112. Introduction to the human condition in the past as manifested in the ideas, religions, visual arts and music of Western civilization from the ancient Greeks through the Renaissance.
- 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 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.

World Civilizations courses present a basic knowledge of past human experiences and an understanding of current events in some key areas of the world. Prerequisite is completion of 32 credits of coursework.

285	WORLD CIVILIZATIONS:	CHINA	2 credits
286	WORLD CIVILIZATIONS:	JAPAN	2 credits
287	WORLD CIVILIZATIONS:	SOUTHEAST ASIA	2 credits
288	WORLD CIVILIZATIONS:	INDIA	2 credits
289	WORLD CIVILIZATIONS:	MIDDLE EAST	2 credits
290	WORLD CIVILIZATIONS:	AFRICA	2 credits
291	WORLD CIVILIZATIONS:	LATIN AMERICA	2 credits

MATHEMATICS

3450:

- 100 INTERMEDIATE ALGEBRA** 3 credits
Prerequisite: placement. A review of high school algebra. Real numbers, exponents and radicals, factoring, linear and quadratic equations, graphing, systems of equations, and problem solving. For students whose algebraic skills are not sufficient to allow them to enroll in University mathematical science courses. Does not meet General Education mathematics requirement.
- 135 EXCURSION IN MATHEMATICS** 3 credits
Prerequisite: Mathematics placement test or 3450:100. 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 MATHEMATICS FOR PRIMARY EDUCATORS** 3 credits
Prerequisites: 3450:100 or 135 with a grade of C- or better, or placement test; 5100:200 with a grade of C- or better. A problem-solving and inquiry-based approach to number systems; bases; operations, properties, relationships, algorithms of real numbers; patterns and algebra.
- 145 COLLEGE ALGEBRA** 4 credits
Prerequisite: Mathematics placement test or 3450:100 with a grade of C- or better. 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.
- 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.
- 215 CONCEPTS OF CALCULUS** 4 credits
Prerequisite: 3450:145, or 149 with a grade of C- or better, or placement. Functions; limits and continuity; differentiation and applications of differentiation; logarithmic and exponential functions; integration and applications of integration; partial differentiation.
- 221 ANALYTIC GEOMETRY-CALCULUS I** 4 credits
Prerequisite: 3450:149 with a grade of C- or better, or placement. Analytic geometry, limits, continuity, derivatives, tangent and normal lines, extrema of functions, Rolle's theorem, mean value theorem, related rates, antiderivatives, definite integrals, areas, volumes, arc length.
- 222 ANALYTIC GEOMETRY-CALCULUS II** 4 credits
Prerequisite: 3450:221 with a grade of C- or better. Derivatives of exponential, logarithmic, trigonometric, inverse trigonometric, hyperbolic and inverse hyperbolic functions; methods of integration, sequences, series, moments, centroids, indeterminate forms, 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.
- 335 INTRODUCTION 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 laboratory.
- 260 BASIC STATISTICS** 3 credits
Prerequisite: Mathematics placement test or 3450:100. Applied approach to data description and statistical inference (hypothesis testing, estimation); one-sample parametric and non-parametric methods. Analysis of ratios, rates, and proportions. Computer applications laboratory.
- 261 INTRODUCTORY STATISTICS I** 2 credits
Prerequisite: Placement. Descriptive statistics such as mean, median; frequency tables and histograms; probability; random variables; discrete and continuous probability distributions; sampling distributions.
- 262 INTRODUCTORY STATISTICS II** 2 credits
Prerequisite: 3470:261. Statistical inference, point estimation, interval estimation, hypothesis testing, parametric (tests for the mean and variance), and non-parametric (binomial test, chi-square tests, rank tests) methods.

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, 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, 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, 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, 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 INTRODUCTION TO PHILOSOPHY** *3 credits*
Introduction to philosophic problems and attitudes through acquaintance with the thoughts of some leading thinkers of Western tradition.
- 120 INTRODUCTION 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".
- 170 INTRODUCTION 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 laboratory 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. Laboratory 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. Laboratory 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. Laboratory.

- 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. Laboratory.

- 267,8 LIFE SCIENCES PHYSICS COMPUTATIONS I, 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. Laboratory.

- 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. Laboratory.

- 293,4 PHYSICS COMPUTATIONS I, 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** *4 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 AND LOCAL GOVERNMENT AND POLITICS** *3 credits*
Examination of institutions, processes and intergovernmental relations at state and local levels.

PSYCHOLOGY

3750:

- 100 INTRODUCTION 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.

SOCIOLOGY

3850:

- 100 INTRODUCTION TO SOCIOLOGY** *4 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.

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 INTRODUCTION 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 LABORATORY** *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*
Prerequisite: 3650:291; corequisite: 4400:230. Fundamentals of circuit analysis including loop and nodal methods, phasor techniques, resonance polyphase circuits and magnetic coupling in circuits.

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 INTRODUCTION 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 (10 field hours)*
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. This course will include 10 hours of field observation in a suburban school setting.

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:

- 230 EDUCATIONAL TECHNOLOGY** *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. Effectively identifying, locating, evaluating, designing, preparing, and efficiently using educational technology as an instructional resource in the classroom to support learning and teaching.
- 245 UNDERSTANDING LITERACY DEVELOPMENT AND PHONICS** *3 credits (10 service learning hours)*
Prerequisite: Admission to Teacher Education Program. Children's literacy development is explored through an integrated instructional model with emphasis on the role of comprehension, phonics, and functional spelling in language learning.
- 286 TEACHING MULTIPLE TEXTS THROUGH GENRE** *3 credits (10 service learning hours)*
Prerequisite: 5500:245. Survey of children's literature through print and nonprint media. Genres will be explored through a variety of technologies, including computer software and film.

PHYSICAL EDUCATION

5540:

- 120-90 PHYSICAL EDUCATION/WELLNESS** *½ 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

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- 126 FITNESS AND WELLNESS**
- 127 GOLF**
- 132 KARATE**
- 135 RACQUETBALL
- 139 SELF-DEFENSE**
- 150 TENNIS (beginning)
- 151 VOLLEYBALL

PHYSICAL EDUCATION

5550:

- 100 **INTRODUCTION 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 **INTRODUCTION 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: 3 100:200/201 or 3 100:202/203. A course designed to study the physiological effects of exercise relative to physical education activities, athletics and athletic training. Two hours lecture, two hours laboratory.
- 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 proficiencies 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, LIFE-STYLE 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 **INTRODUCTION TO EXCEPTIONALITIES** 3 credits (1 field hour)
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. 1 field hour.
- 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 & 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 **GLOBAL BUSINESS CONCEPTS & PRACTICES** 3 credits
An introductory course presenting the business firm throughout the world as an integrative unit that uses information from various functional fields in decision making.

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 & DECISION ANALYSIS** 3 credits
Prerequisite: Spreadsheet proficiency and either 6200:201 or 24 semester credit hours completed. In-depth study of spreadsheet applications and databases to support decision-making and problem-solving in business and accounting.

ENTREPRENEURSHIP

6300:

- 201 INTRODUCTION 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:

- 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.

MANAGEMENT

6500:

- 221 QUANTITATIVE BUSINESS ANALYSIS I** *3 credits*
Prerequisite: 3450:141, or 145, or 289. Descriptive statistics, probability, sampling distributions, interval estimation, single sample hypothesis testing and p-values. Case analysis with written individual and team reports will be used.
- 222 QUANTITATIVE BUSINESS ANALYSIS II** *3 credits*
Prerequisite: 6500: 221. Two sample hypothesis testing and ANOVA, Chi-square tests, simple and multiple linear regression, nonparametric procedures, forecasting. Case analysis with written individual and team reports will be use.

ART

7100:

- 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.



- 274 PHOTOGRAPHY I FOR NON-ART MAJORS** *3 credits*
A study of photography through lecture, demonstration and studio work. An exploration and enrichment opportunity for the non-art major. No credit toward a major in art.

FAMILY AND CONSUMER SCIENCES

7400:

- 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.
- 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, logic-mathematics and science. Space, time, materials and adult-child interactions are emphasized.
- 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.

MUSIC

7500:

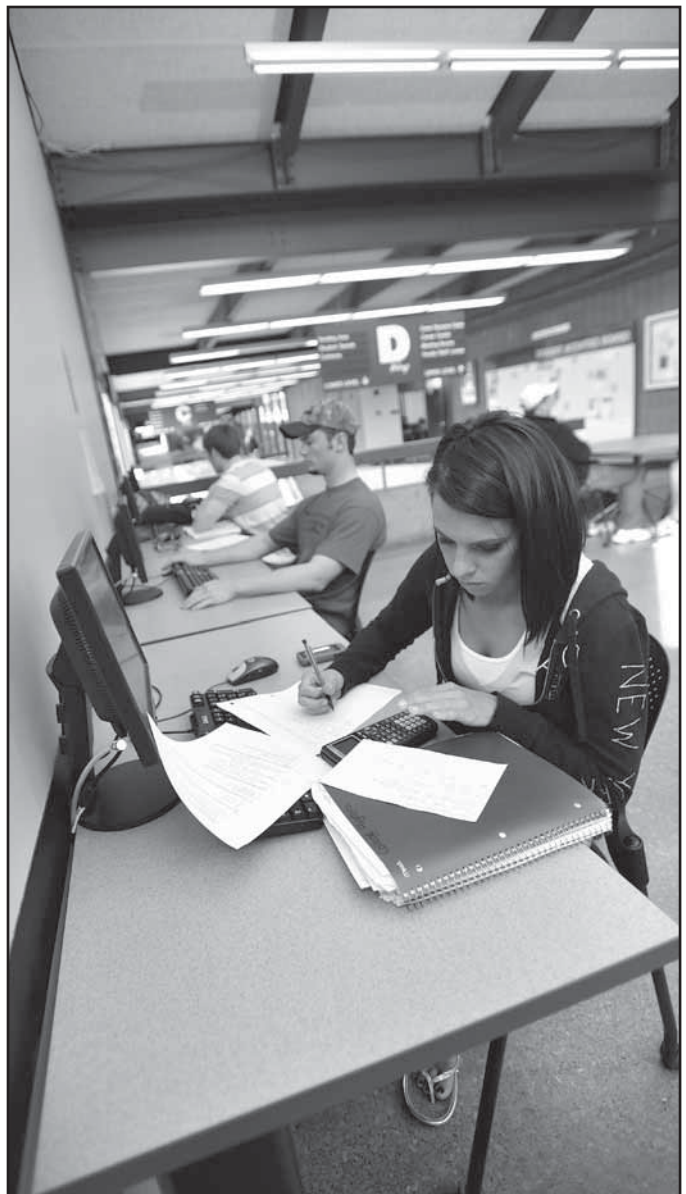
- 101 INTRODUCTION TO MUSIC THEORY** *2 credits*
Prerequisite: Undergraduate Theory Placement Examination or permission of Wayne College Dean. Designed for prospective music major to correct deficiencies in theory background as determined through department placement testing. Includes classroom instruction 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:

- 102 SURVEY OF MASS COMMUNICATION** *3 credits*
Considers entire field of contemporary American mass communication. Presents and explains functions of agencies through which news, views and entertainment reach the general public.
- 105 INTRODUCTION 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 informal 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.
- 115 SURVEY OF COMMUNICATION THEORY** *3 credits*
Presents models of major forms of speech communication and discusses elements of models, their interaction and their function in the human communication system.

- 226 INTERVIEWING** *3 credits*
A concentrated study of the principles of interviewing and application of those principles to varied settings (especially those crucial to media study).
- 227 NONVERBAL COMMUNICATION** *3 credits*
Focused study of the principal aspects of nonverbal communication in public, group and interpersonal settings.
- 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 Summit College. 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 GROUP DECISION MAKING** *3 credits*
Prerequisite: Admitted to a four year degree granting college except Summit College. Study of communication and decision making in small groups. Practice in techniques of group decision making. Introduction to theory of group communication.
- 345 BUSINESS AND PROFESSIONAL SPEAKING** *3 credits*
Prerequisites: Admitted to a four year degree granting college except Summit College; 7600:105 or 106. Practical improvement in speaking skills used in business settings.



SOCIAL WORK

7750:

- 270 POVERTY AND MINORITY ISSUES** *3 credits*
Introductory course explores issues related to poverty and minority issues as they relate to at-risk populations.
- 275 INTRODUCTION 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 INTRODUCTION 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 & 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.

NURSING

8200:

- 100 INTRODUCTION 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.