

FORT ZUMWALT SCHOOL DISTRICT



HIGH SCHOOL COURSE DESCRIPTION HANDBOOK 2012-2013

East High School
600 First Executive Drive
St. Peters, MO 63376

North High School
1230 Tom Ginnever Ave.
O'Fallon, MO 63366

South High School
8050 Mexico Road
St. Peters, MO 63376

West High School
1251 Turtle Creek Drive
O'Fallon, MO 63366

Revised 1/3/12

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NONDISCRIMINATION

The Board believes in the inherent worth of every individual and the right of every student to receive equal opportunities in all educational programs and activities, which are conducted by the Fort Zumwalt School District.

The Board also believes in the right of every qualified individual to expect fair and equal treatment both as applicants for employment and employees.

It is the policy of the Board to accord equal consideration and impartial treatment regardless of race, color, national origin, ancestry, religion, socioeconomic status, marital status, sex, age, handicapping conditions or memberships in legally-constituted organizations. This policy will prevail in all matters concerning staff, students, the public, educational programs and services and individuals with whom the Board does business. The superintendent shall continue all necessary actions to insure that discrimination does not occur in the educational program, employment practices or activities in the Fort Zumwalt School District.

GRADUATION REQUIREMENTS

English/Communication Arts (English I, English II, American Literature, Senior Electives)	4 Units
Mathematics	3 Units
Science (1 credit must be earned in Biology)	3 Units
Social Studies (United States History, World History, and Government)	3 Units
Health	½ Unit
Personal Finance	½ Unit
Fine Arts	1 Unit
Practical Arts	½ Unit
Physical Education	1 Unit
Electives	7 ½ Units
Pass the Missouri and U.S. Constitution Tests	Total Units Required 24 Units

COURSE SELECTION/SCHEDULE CHANGE GUIDELINES

The proper selection of courses is very important for all students and something that should be done with serious deliberation. Course description guides are provided to each student and a copy of the guide can be located on each high school's web site. It is strongly suggested that students confer with their parents, counselors, other staff, and consider college and/or career plans carefully before making course selections.

Requesting a course change does not guarantee that a change will be made. Many factors must be considered, including class sizes and class size balances, before requests can be granted. Requests for schedule changes received after stated deadlines will not be permitted without administrative approval. This approval will only be considered when significant extenuating circumstances exist.

GRADUATE GUARANTEE

The Fort Zumwalt School District offers to the employer of the bearer of the Fort Zumwalt School diploma the guarantee that the individual possesses the appropriate math, reading, and communication skills to perform the job for which they have been employed. If the employer finds the employee does not have these skills, the Fort Zumwalt School District will refer the employee to the St. Charles Community College Academic & Career Enhancement Center for instruction and remediation in the deficit areas. Any cost incurred will be borne by the Fort Zumwalt School District, as the St. Charles Community College is a partner with the public school in this effort. This guarantee is effective for three years from the date on the high school diploma.

Students must attend at least two semesters and earn a minimum of six (6) credits in a Fort Zumwalt High School to qualify for graduation.

Grade level shall be determined by the number of credits attained.

- 7 units of credit to be classified as a sophomore
- 13 units of credit to be classified as a junior
- 18 units of credit to be classified as a senior

COLLEGE ADMISSIONS REQUIREMENTS

In general, students are encouraged to take as much college related coursework as possible during high school to maximize their academic potential, enhance their admission opportunities for college and improve their scores on college entrance tests. These courses include Math, Science, Communication Arts, Social Studies, and Foreign Language. Listed below are the course requirements for admission to various area universities. Keep in mind that class rank and ACT or SAT scores also affect admissions to college.

Missouri State Colleges

English	4 units
Math (Algebra I or higher)	3 units
Social Studies	3 units
Science	3 units
Fine Arts	1 unit
Electives	3 units

(Electives from Foreign Language and/or combinations of the core courses)

* Truman State University requires 2 Foreign Language credits.

Missouri State Colleges/Universities

University of Central Missouri
Missouri Southern
Missouri State University
Missouri Western
Northwest Missouri State
Southeast Missouri State
Truman State University

University of Missouri System

English	4 units
Math (Algebra I or higher)	4 units
Social Studies	3 units
Science	3 units
Fine Arts	1 unit
Foreign Language	2 units

University of Missouri System

University of Missouri
University of Missouri – Kansas City
University of Missouri – St. Louis
Missouri University of Science & Technology

FIND YOUR FUTURE IN Career Paths & Career Clusters

WWW.MISSOURICONNECTIONS.ORG

Science, Technology, Engineering and Mathematics

Engineering and Technology
Science and Math

Architecture and Construction

Design and Pre-Construction
Construction
Maintenance and Operations

Manufacturing

Production
Manufacturing Production Process Development
Maintenance, Installation and Repair
Quality Assurance
Logistics and Inventory Control
Health, Safety and Environmental Assurance

Transportation, Distribution and Logistics

Transportation Operations
Logistics, Planning and Management Services
Warehousing and Distribution Center Operations
Facility and Mobile Equipment Maintenance
Transportation Systems and Infrastructure
Planning, Management and Regulation
Health, Safety and Environmental
Management
Sales and Services

Human Services

Early Childhood Development and Services
Counseling and Mental Health Services
Family and Community Services
Personal Care Services
Consumer Services

Hospitality and Tourism

Restaurants and Food and Beverage Services
Recreation, Amusement and Attractions
Travel and Tourism
Lodging

Government and Public Administration

Public Management and Administration
Governance
National Security
Foreign Service
Planning
Revenue and Taxation
Regulation

Law, Public Safety, Corrections and Security

Correction Services
Emergency and Fire Management Services
Security and Protective Services
Law Enforcement Services
Legal Services

Education and Training

Administration and Administrative Support
Professional Support Services
Teaching and Training

Health Science

Biotechnology Research and Development
Therapeutic Services
Diagnostics Services
Health Informatics
Support Services

Industrial & Engineering Technology

Building & Fixing Path

Human Services

Helping Path

Health Services

Health Path

Foundation Knowledge & Skills

Academic & Technical Skills
Teamwork Career Development
Information Technology Application
Problem Solving Critical Thinking
Employability Ethics Systems
Safety, Health & Environment
Legal Responsibilities
Communication

Natural Resources Agriculture

Nature Path

Arts & Communication

Creative Path

Business, Management & Technology

Business Path

Agriculture, Food and Natural Resources

Food Products and Processing Systems
Plant Systems
Animal Systems
Power, Structural and Technical Systems
Natural Resources and Environmental Systems
Agribusiness Systems

Arts, A/V Technology and Communications

Audio and Video Technology and Film
Printing Technology
Visual Arts
Performing Arts
Journalism and Broadcasting
Telecommunications

Information Technology

Network Systems
Information Support and Services
Web and Digital Communications
Programming and Software Development

Finance


Accounting
Insurance
Banking Services
Business Finance
Securities and Investments

Marketing

Marketing Management
Marketing Communications
Marketing Research
Professional Sales
Merchandising

Business Management and Administration

General Management
Human Resources Management
Business Information Management
Administrative Support
Operations Management



MISSOURI
Career Education

ESSENTIAL SKILLS FOR ALL STUDENTS

Department of Elementary and Secondary Education
Division of Career Education
P.O. Box 480
Jefferson City, MO 65102-0480
(673)761-2660



MCCE
Missouri Center for
Career Education



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DESE 3388-3 4/07

Student Eligibility Requirements for all Interscholastic Activities

In order for a student to participate in activities, he/she must fulfill completely all the regulations, and requirements set forth by the M.S.H.S.A.A. and the Fort Zumwalt School District.

M.S.H.S.A.A ELIGIBILITY STANDARDS

1. Student must be enrolled in courses offering 3.0 units and must earn 3.0 units the preceding semester within the regular school day. (This does not include credit recovery, correspondence, etc.) Summer school credits may apply to state eligibility standards provided the course is necessary for graduation or promotion and is placed on the school transcript. No more than one credit in summer school shall be counted towards eligibility.
2. Students enrolled in Missouri Virtual Schools Program must attend the district high school for courses offering not less than one unit of credit and be enrolled in a minimum of one and one half units of virtual school credit for the current semester.
3. Student must not have reached 19th birthday prior to July 1st preceding the opening of the school year. A student is ineligible after the class in which they entered 9th grade has graduated.
4. Student is ineligible for varsity competition for one calendar year if they transfer to Fort Zumwalt from either a public or parochial high school without a corresponding change of residence of parent or guardian. (There is a possibility of a waiver when transferring from private to public.)
5. Student must be a good school citizen. Behavior unbecoming a participant could result in the principal revoking the privilege of a student to participate in an activity temporarily or permanently. A student cannot commit an unsportsmanlike act while attending or participating in a high school activity.
6. Student must have satisfactorily passed the physical examination. Exams can be taken after February 1st of the preceding year and before school.
7. Student must have a signed parent permission form to participate in interscholastic activities.
8. All 9th grade students who have been promoted from the 8th grade are automatically eligible during their first semester of high school, but must meet district/state requirements their second semester.
9. Student cannot have previously graduated from a four year high school.
10. Student cannot have played sports under a false name.
11. Student must have entered school within the first 11 days of the semester.

COLLEGE ATHLETICS

College athletics are governed by one of three organizations:

- National Collegiate Athletic Association (NCAA)
- National Association for Intercollegiate Athletics (NAIA)
- National Junior College Athletic Association (NJCAA)

These governing bodies decide the rule and regulations that keep the various college sports and teams in line with what the organizations and their members determine are appropriate standards.

The NCAA is the largest and best known of the three organizations. Regardless of which of the three organizations governs the school you decide to attend and play a sport at, it is critical that you understand and abide by the eligibility requirements for that organization. In general, if you meet the eligibility requirements to be a NCAA Division I athlete, you will be eligible for the other organizations as well. However, you should check with each organization to be certain.

Websites:

- NCAA: <http://eligibilitycenter.org>
- NAIA: www.playnaia.org
- NJCAA: www.njcaa.org



NCAA FRESHMAN-ELIGIBILITY STANDARDS QUICK REFERENCE SHEET

KNOW THE RULES:

Core Courses

- **NCAA Division I requires 16 core courses as of August 1, 2008.** This rule applies to any student first entering any Division I college or university on or after August 1, 2008. See the chart below for the breakdown of this 16 core-course requirement.
- **NCAA Division II requires 14 core courses.** See the breakdown of core-course requirements below. Please note, Division II will require 16 core courses beginning August 1, 2013.

Test Scores

- **Division I** has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown on page two of this sheet.
- **Division II** has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, mathematics, reading and science.
- **All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.**

Grade-Point Average

- Only core courses are used in the calculation of the grade-point average.
- **Be sure** to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses. The Web site is
- **Division I** grade-point-average requirements are listed on page two of this sheet.
- **The Division II** grade-point-average requirement is a minimum of 2.000.

DIVISION I 16 Core-Course Rule	
16 Core Courses:	
4	years of English
3	years of mathematics (Algebra I or higher)
2	years of natural/physical science (1 year of lab if offered by high school)
1	year of additional English, mathematics or natural/physical science.
2	years of social science.
4	years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

DIVISION II 14 Core-Course Rule	
14 Core Courses:	
3	years of English.
2	years of mathematics (Algebra I or higher)
2	years of natural/physical science (1 year of lab if offered by high school).
2	years of additional English, mathematics or natural/physical science.
2	years of social science.
3	years of additional courses (from any area above, foreign language or non-doctrinal religion/philosophy).

PLEASE NOTE: Beginning August 1, 2013, students planning to attend an NCAA Division II institution will be required to complete 16 core courses.

OTHER IMPORTANT INFORMATION

- Division II has no sliding scale. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (verbal and math sections only) and the minimum ACT sum score is 68.
- 14 core courses are currently required for Division II. However, beginning 2013, students will be required to complete 16 core courses.
- 16 core courses are required for Division I.
- The SAT combined score is based on the verbal and math sections only. The writing section will not be used.
- SAT and ACT scores must be reported directly to the Eligibility Center from the testing agency. Scores on transcripts will not be used.
- Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.

For more information regarding the rules, please go to www.ncaa.org. Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at www.ncaa.org/eligibility.

Please call the NCAA Eligibility Center if you have questions:

Toll-free number: 877/262-1492.

NCAA DIVISION I SLIDING SCALE CORE GRADE-POINT AVERAGE/ TEST-SCORE

New Core GPA / Test Score Index

Core GPA	SAT	ACT
	Verbal and Math ONLY	
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

COLLEGE CREDIT PROGRAMS

There are currently six different types of dual enrollment/articulation programs whereby high school students can earn college credit by taking advanced high school courses and dually enrolling in the college's reciprocal course. Under the guidelines from the Coordinating Board of High Education (CBHE), the following requirements must be met:

1. These programs are available only to juniors and seniors.
2. A student must have a grade point average (GPA) of 3.0.
3. No grade lower than a C is accepted for college credit.

Actual courses available for college credit change annually based upon approval of courses by the college and student enrollment.

Parents and students are advised that a college may not accept college credit earned through any of these programs. It is the student's/parents responsibility to check with the college that they are planning on attending to see if the college will accept college credit obtained through these advanced credit programs.

1. Missouri Baptist College – EXCEL:

Accounting II	3 hours	U.S. Foreign Policy	3 hours
AP Biology	4 hours	Concept of Psychology	3 hours
Anatomy & Physiology	4 hours	Pre-calculus	4 hours
Advanced Chemistry	4 hours	Statistics	3 hours
Advanced Physics	4 hours	Calculus	4 hours
Adv. Speech	3 hours	Western Civilization	6 hours
Adv. Composition	3 hours	Business Technology	3 hours
		Computer Programming	3 hours

2. Saint Louis University 1818 Advanced College Credit:

Advanced Composition	3 hours	Calculus	4 hours
Advanced Literature Survey	3 hours		
U.S. Foreign Policy	3 hours		

3. University of Missouri-St. Louis – Advanced Credit Program:

Advanced Literature Survey	3 hours	French 3, 4 & 5	5 hours each
Adv. Comp.	3 hours	Spanish 3, 4 & 5	5 hours each
Advanced Speech	3 hours	German 3, 4 & 5	5 hours each
Western Civilization	6 hours	Concept of Psychology	3 hours
Advanced Chemistry	4 hours	Research Science	1-12 hours
AP Biology	5 hours	Advanced Studio Theatre Workshop	3 hours
Anatomy & Physiology	4 hours	Theatre Design & Technology II	3 hours

4. Lindenwood University

Advanced Music Ensemble	1 hours
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5. St. Charles Community College:

An articulation agreement has been established between the district and the community college. Under specific conditions, college credit may be granted for high school Business/Vocational courses, Family & Consumer Science courses and/or Industrial Technology Education courses.

6. Ranken Technical College:

An articulation agreement has been established between the district and Rankin Tech. Under specific conditions, college credit may be granted for specified advanced courses taken in high school.

7. St. Louis Community College – Flo Valley:

An articulation agreement has been established between the district and the community college. Under specific conditions, college credit may be granted for high school Family & Consumer Science courses.

WEIGHTED GRADES

The impact of weighted grades for advanced course offerings should serve to offer additional scholastic rewards to those students taking these classes. The use of weighted grades could help raise the grade point average and the class ranks of college-bound students and help those students in qualifying for scholarships and financial awards.

For all high school honors courses and advanced courses that are available for college credit, additional points on the grade point average scale can be earned for the grades of A, B, and C. The weight, per grade, is 1 additional point. Weighted Grades for advanced courses are open only to Juniors and Seniors.

The grades of A, B, and C receive full weight equivalent to the next highest grade. The weighted grades are as follows:

A	5 points
B	4 points
C	3 points
D	1 point
F	0 points

ACADEMIC EXCELLENCE

The Cum Laude Honors System will be used for recognizing academic excellence at graduation.

Cum Laude Honors System

1. A student must have attended Fort Zumwalt School District for a minimum of one calendar year.
2. A student must have taken a minimum of a full seven-hour day for four years. During the senior year, students may petition the principal for a six-hour day with the seventh hour being occupied with a non-credit bearing, on-campus assignment.
3. Grade Point Average will include all courses taken in high school, except correspondence.
4. Grade Point Average needed for recognition after eight (8) semesters:
 - 4.2 and above = Summa Cum Laude
 - 4.0 – 4.19 = Magna Cum Laude
 - 3.80 – 3.99 = Cum Laude
5. Recognition will be received as follows:
 - a. As student's names are read at commencement, the Cum Laude Honors will be announced.
 - b. Students will wear a colored medallion to signify level of honor.
 - Summa Cum Laude – Gold
 - Magna Cum Laude – Silver
 - Cum Laude – Bronze
 - c. A sticker will be placed on the student's diploma indicating the honor.
6. Class rank will be reported on the final transcripts.

COURSES AVAILABLE TO FRESHMEN

Students must meet the required prerequisites for some courses as specified in the course descriptions.

COMMUNICATION

ARTS

English I
Honors English I/w
Eng. Speakers Other Lang

MATHEMATICS

Algebra IA
Algebra I
Geometry
Honors Geometry/w

World Languages

French I
German I
Spanish I

SOCIAL STUDIES

United States History
Honors US History/w
Leadership*

PHYSICAL EDUCATION

General Physical Education
Health*

SCIENCE

Physical Science
Biology-9

PRACTICAL ARTS

Exploratory Family & Consumer Science*
Fashion Basics I*
Foods and Nutrition*
Family & Individual Health*
Career and Family Leadership*
Word Processing*
Desktop Publishing*
Computer Applications*
Principles of Business*
Intro to Metal Technology*
Applied Metal Technology*
Intro to Wood Technology*
Applied Wood Technology*
Intro to Drafting*
Intro to CADD*
Intro to Architectural Drafting*
Intro to Media Technology*
Applied Media Technology*

FINE ARTS

Intro to Art
Art History I*
Art History II*
Intro to Theatre*
Fund of Acting*
Fund of Theatre Design & Tech*
Music in Our Lives*
Women's Choir
Men's Choir
Concert Choir
Beginning Band*
Symphonic Band
Symphonic Wind Ensemble
Music Theory*
Class Guitar I*
Class Guitar II*
Chamber Orchestra

COURSES AVAILABLE TO SOPHOMORES

Sophomores may select from any courses listed from freshman plus those additional course listed below as long as prerequisites have been taken:

COMMUNICATION

ARTS

English II
Honors English II/w

MATHEMATICS

Algebra I-B
Algebra II
Honors Algebra II/w

WORLD LANGUAGES

French II
German II
Spanish II

SOCIAL STUDIES

World History
Sociology*
AP World History /w

SCIENCE

Biology
General Physics
Environmental Science I*
Environmental Science II*
Chemistry
Earth Science -Astronomy & Meteorology*
Earth Science - Geology*
Zoology*

FINE ARTS

Ceramics*
Drawing*
Digital Art*
Painting*
Sculpture/Multi-Media*
Photography I*
Photography II*
Graphic Design*
Advanced Acting
Chamber Choir
Theatre Design & Tech I
Jazz Band
Jazz Improvisation*
Symphonic Orchestra

PHYSICAL EDUCATION

Adaptive Physical Education*
Team Sports*
Lifetime Activities*
Beginning Weight Training.*
Hunter Safety and Conservation*
Advanced Weight Training*
Cardiovascular Fitness Walking*

PRACTICAL ARTS

Fashion Basic II*
Housing & Home Design*
Child Development I*
Accounting
Business Web Design/Multimedia*
Business and Personal Law*
Business and Event Management*
Personal Finance*
Entrepreneurship*
Marketing Concepts
Engineering Metal Technology*
Engineering Wood Technology*
3-D Solid Modeling*
Applied Architectural Drafting*
Advanced Media Technology*
Collaborative Study in Engineering Tech*

*Semester Courses
cc=College Credit
w=Weighted Grade

COURSES AVAILABLE TO JUNIORS

Juniors may select from any courses listed for sophomores and freshmen plus those additional courses listed below as long as all prerequisites have been taken:

COMMUNICATION ARTS

American Literature
Honors American Literature /w
Writing in a Contemporary World*
Advanced Composition*/cc/w
Speech*
Advanced Speech*/cc/w
Contemporary Literature*
Advanced Literature Survey*/cc/w
Intro to Newspaper Production
Intro to Yearbook Production
Science Fiction, Fantasy, & Mystery*
Shakespeare*
Creative Writing*

SOCIAL STUDIES

Government
United States Foreign Policy*/cc/w
Social Problems*
General Psychology*
Concepts of Psychology */cc/w
Contemporary Issues*
Constitutional Law*
AP U.S. History/w

PHYSICAL EDUCATION

Sports in American Society**

MATHEMATICS

College Preparatory Math
Pre-calculus cc/w
Statistics cc/w
Informal Geometry
Computer Programming cc/w

SCIENCE

Applied Biology/Chemistry
Environmental Science I*
Environmental Science II*
AP Biology cc/w
AP Chemistry cc/w
Human Anatomy & Physiology cc/w
Advanced Physics cc/w
Science Research cc/w

PRACTICAL ARTS

Family Relationships*
Child Development II*
Child Development III*
Advanced Accounting cc/w
Advanced Computer Application cc/w
Retail and Hospitality*
Advertising and Promotion*
Sports and Entertainment Marketing*
Culinary Arts I*
Culinary Arts II*

WORLD LANGUAGES

French III cc/w
German III cc/w
Spanish III cc/w

FINE ARTS

Advanced Drawing & Painting*
Studio Art Portfolio*
Film Studies I*
Film Studies II*
Theatre Design & Tech II cc/w
Adv. Studio Theatre Workshop*/cc/w
Theatre for Youth*
Play Production*
Advance Music Ensemble cc/w

COURSES AVAILABLE TO SENIORS

Seniors may select from any courses listed for juniors, sophomores, and freshmen plus those additional courses listed below as long as the prerequisites have been taken:

COMMUNICATION ARTS

Newspaper Production
Yearbook Production
AP Language & Composition/w
(ESOL)

SOCIAL STUDIES

Western Civilization cc/w

MATHEMATICS

Calculus cc/w
AP Calculus cc/w
Advanced Programming /w
Mathematics Independent Study*

SCIENCE

Applied Biology/Chemistry II

PRACTICAL ARTS

Senior Survival*
FACS Independent Study*
Business Internship
Marketing Internship
Business Independent Study

World LANGUAGES

French IV cc/w
French V cc/w
Spanish IV cc/w
Spanish V cc/w
German IV cc/w
German V cc/w

*Semester Courses
cc=College Credit
w=Weighted Grade

ENGLISH/COMMUNICATION ARTS

101 English I (1 Unit)

English I is a year-long course in reading, writing, and speaking that meets the Missouri Grade-Level Expectations. Writing instruction will cultivate students' skills in independent development of ideas, organization of ideas, use of authentic voice, vocabulary, research, and use of conventions (grammar and punctuation). Reading instruction in fiction, non-fiction, poetry and drama will develop students' skills in comprehension of material read and analysis of author's purpose, voice, style, organization, and word choice. Instruction in speaking will focus on the students' speaking skills through the development of and presentation of informal and formal speeches. **DESE 054800-1**

102 Honors English I (1 Unit) / w

Honors English I is a year-long reading and writing intensive course that will require independent study and is intended to prepare students for an accelerated pace of advanced classes. Writing instruction will cultivate students' skills in independent development of ideas, organization of ideas, use of authentic voice, vocabulary, research, and use of conventions (grammar and punctuation). Reading instruction in fiction, non-fiction, poetry and drama will develop students' skills in comprehension of material read and analysis of author's purpose, voice, style, organization, and word choice. Instruction in speaking will focus on the students' speaking skills through the development of and presentation of informal and formal speeches. **(Prerequisite: Teacher recommendation, completed application form/parent signature, completion of 8th grade English with an A average or higher, and 95% attendance.) DESE 045861-1**

103 English II (1 Unit)

English II is a year-long course in reading, writing, and speaking that meets the Missouri Grade-Level Expectations. Students will respond critically and analytically to a variety of literary genres. Emphasis will be placed on formal and informal writings that exhibit the Six Traits of Writing, focusing on ideas, organization, word choice, voice, sentence fluency, and conventions. Using various forms of media, students will gather, synthesize, and analyze information to develop a research-based project. In addition, students will utilize appropriate speaking and listening skills in presentations and discussions. **(Prerequisite: Successful completion of English I) DESE 054800-2**

104 Honors English II (1 Unit) / w

Honors English II is a year-long reading and writing intensive course that will require extensive study. This course is intended to prepare students for an accelerated pace of advanced classes. Students will read, analyze, and critique a variety of literature and write and revise several types of compositions. Emphasis is placed on formal and informal writings that exhibit the Six Traits of Writing, focusing on ideas, organization, word choice, voice, sentence fluency, and conventions. Using various forms of media, students will gather, synthesize, and analyze information to develop a research-based project. In addition, students will exercise appropriate speaking and listening skills in presentations and discussions. **(Prerequisite: Teacher recommendation, completed application form/parent signature, completion of English I with an A or Honors English I with a B average or higher, and 95% attendance.) DESE 054861-2**

105 American Literature (1 Unit)

American Literature continues to expand and reinforce students' skills of analysis, evaluation, and synthesis of literature, writing, word study, and research. Reading fiction, nonfiction, drama, and poetry, students will examine the changing nature of the American Dream, and how it pervades American literature. Students in this course are expected to write critically and analytically, integrating the Six Traits of Writing; ideas, organization, word choice, voice, sentence fluency, and conventions. Throughout the year, students will strengthen their reading and writing skills. Furthermore, students will develop oral communication skills through formal and informal presentations. **(Prerequisite: successful completion of English II) DESE 054821-3**

106 Honors American Literature (1 Unit) / w

Honors American Literature is based on independent critical thinking in which students will do intensive and extensive reading of American Literature. Students will study a broad range of fiction, nonfiction, drama, and poetry as they analyze the changing nature of the American Dream. Students in this course will write and revise several compositions, demonstrating their proficiency of the Six Traits of Writing: ideas, organization, word choice, voice, sentence fluency, and conventions. Students will refine oral communication skills through formal and informal presentations. **(Prerequisite: Teacher recommendation, completed application form/parent signature, completion of English II with an A or Honors English II with a B average or higher, and 95% attendance.) DESE 054861-3**

110 Advanced Composition (1/2 Unit)/cc/w

This college level course is designed for the exceptional student of Language Arts. This is a rigorous writing intensive course designed to develop students' abilities as skilled writers and analysts of a broad range of prose written in a variety of periods, disciplines, and rhetorical context. Students will study the more complex structures of logical and persuasive language to further refine their research skills and produce two length pieces- a literary analysis and an argumentative paper. Additionally, students will compose a minimum of two shorter essays. **(Prerequisite: Junior/Senior Standing, successful completion of English I and English II, and a 3.0 GPA or instructor approval.) DESE 054804**

111 Advanced Literature Survey (1/2 Unit)/cc/w

This is a college level class for students who want to read challenging literature with an in-depth analytical approach. It includes the reading of and written analysis of world poetry, novels, essays, and drama. The student enrolling in this class should be a superior reader of difficult literature, have a firm background in literary analysis, and have a high proficiency level in the areas of mechanics, grammar, organization, and logic. Written analysis will be based on literature and theory studied in class, as well as literature read independently. **(Prerequisite: Junior/Senior Standing, successful completion of English I and English II, and a 3.0 GPA or instructor approval.) DESE 054823**

107 Speech (1/2 Unit)

Speech, s semester course, is a basic study of verbal and nonverbal communication. It is a performance class in which students develop and perform a variety of public speaking events. Areas of study include narrative, informative, persuasive, and impromptu speaking. Students deliver a variety of speeches and performances within the areas of study. This class provides students with an opportunity to develop effective skills in the research, organization, writing, and presentation of speeches. **(Prerequisite: Junior/Senior Standing and successful completion of English I and English II) DESE 056500-1**

108 Advanced Speech (1/2 Unit)/cc/w

Advanced Speech is a semester-long performance course that builds upon the written and oral communication skills taught in Speech. Students will research and write manuscripts, outlines, and debates for performance. The major units of study include public speaking, debate, and radio performance. This course may be available for college credit. **(Prerequisite: Successful completion of English II and Speech; Junior or Senior Standing.) DESE 056500-2**

115 Contemporary Literature (1/2 Unit)

This semester course will explore trends and issues in contemporary America and the world beyond. Through the reading and study of fiction, nonfiction, poetry, and other media, students will evaluate how issues in the world shape ideas and beliefs that influence literature and pop culture. Students will independently and collectively respond to reading experiences through various writing assignments, projects, and small group activities. **(Prerequisite: Successful completion of English I and English II; Junior or Senior Standing) DESE 054822**

109 Creative Writing (1/2 Unit)

Creative Writing is an intensive writing course giving students the opportunity to develop their talents further in the areas of creative non-fiction, fiction, poetry, etc. Students will analyze texts of published authors and use their speaking and listening skills to share and evaluate their writing. The class focuses on the study of style and structure, with at least one in-class writing exercise due each week; emphasis outside of class is on the students' opportunity, ability, and responsibility to create, polish, and revise their own individual works on a regular basis. Because the writing assignments can average more than one a week, the course is **not** recommended for any student who does not actively enjoy writing or who does not have **at least average** proficiency as a writer. **(Prerequisite: Successful completion of English I and English II; Junior or Senior Standing.) DESE 054805**

120 Introduction to Newspaper Production (1 Unit)

Introduction to Newspaper Production is a year-long, practical lab class where students produce the school newspaper. Students will learn all the skills necessary to recreate a computer-generated newspaper, including newsworthiness of stories, identifying reliable sources, journalistic writing and editing, and working within a budget supported through ad sales and fundraising. Students need to be aware that this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. **(Prerequisite: Junior or Senior, teacher recommendation, student application.) DESE 054809-1**

121 Newspaper Production (1 Unit)

Newspaper Production is a year-long, practical lab class where students will provide leadership to produce the school newspaper. Students will master all the skills necessary to create a computer-generated newspaper, including newsworthiness of stories, identifying reliable sources, journalistic writing and editing, and working within a budget supported through ad sales and fundraising. Students need to be aware that **this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily.** **(Prerequisite: Successful completion of Introduction to Newspaper Production and/or Instructor Approval.) DESE 054809-2**

122 Introduction to Yearbook Production (1 Unit)

Yearbook Production I is a year-long, practical lab class where students produce the school yearbook. Students will learn all the skills necessary to create a computer-generated yearbook, including theme development, journalistic writing, design, digital photography, and desktop publishing. Students need to be aware that **this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. (Prerequisite: Junior or Senior Standing with teacher recommendation through student application.) DESE 054809-1**

123 Yearbook Production (1 Unit)

Yearbook Production II is a year-long, practical lab class where students will provide the leadership to produce the school yearbook. Students will master all the skills necessary to create a computer-generated yearbook, including theme development, journalistic writing, design, digital photography, and desktop publishing. Students need to be aware that **this is a co-curricular class that will require after-school hours to complete deadlines satisfactorily. (Prerequisite: Completion of Yearbook Production I and Senior Standing with teacher recommendation through student application.) DESE 054809-2**

112 Science Fiction, Fantasy, and Mystery (1/2 Unit)

In this reading-intensive course, students will read, analyze, and discuss works from the genres of Science Fiction, Fantasy, and Mystery. Students will broaden their reading scope and skills through the study of works from these genres. Students' understanding of the literature will be assessed in a variety of ways: independent writing assignments, journals, projects, discussions, quizzes, and tests. Students enrolling in the course are expected to complete independent reading assignments and to participate in various class activities. **(Prerequisite: Successful completion of English I and English II; Junior or Senior Standing.) DESE 054819**

113 Shakespeare (1/2 Unit)

This course is designed for students who desire a deeper appreciation of Shakespeare's works. Students will gain knowledge of the cultural significance, historical application, and contemporary relevance of Shakespeare's works. Students will focus on critical reading, analysis and interpretation of Shakespeare's works through active participation and written works. **(Prerequisite: Successful completion of English I and English II; Junior or Senior Standing.) DESE 054845**

116 Writing in a Contemporary World (1/2 Unit)

In this semester writing/reading course, students will respond to contemporary issues through real-world writing in an interactive setting. Students will study the power of words and apply them in various formats, which may include editorials, documentaries, news programs, and songs. A culminating project will allow students to express personal views. **(Prerequisite: Successful completion of English I and English II; Junior or Senior Standing.) DESE 054803**

114 AP Language and Composition (1 Unit) /w

This year-long, college level course is designed for the serious student of communication arts. Through close reading and frequent writing, students will develop the skills necessary to analyze literature (fiction and non-fiction) using rhetorical devices. Reading will include works of autobiographers, biographers, diarists, critics, essayists, journalists and writers of history, politics, science and nature, and writers of fiction. Students will compose in a variety of modes for a variety of purposes and develop an awareness of the way genre conventions and the resources of language contribute to effectiveness in writing. Writing will include both formal and informal contexts of expository, narrative, analytical and argumentative essays, and research-based pieces. **(Recommendations: Senior standing, completion of summer reading/writing assignment, and parent/student agreement form) DESE 054804**

2500 English for Speakers of Other languages (ESOL)

English for Speakers of Other Languages (ESOL) is a course designed for secondary students in grades 9-12. The course is designed to improve English Language Learners (ELLs) proficiency level in English in the areas of speaking, listening, reading and writing. The course also provides academic support, including modifications and accommodations, for core courses and assessments by providing an ELL Academic Plan detailing the specific needs of each ELL student. **(Prerequisite: Completing a home language survey form and scoring as Limited English Proficient (LEP) on the language assessment) DESE 054865**

SOCIAL STUDIES

206 United States History (1 Unit)

United States History is a required year-long course. This survey course emphasizes history, government, culture, diversity, economics, and geography of our nation. A balanced presentation of history is covered from Reconstruction to Modern America. **(Prerequisite: Freshman standing) DESE 156661**

208 Honors United States History (1 Unit) /w

Honors United States History is an elective year-long course. This advanced level course is designed to challenge students and prepare them for AP and dual credit social studies courses. This survey course emphasizes the history, government, culture, diversity, economics, and geography of our nation from Reconstruction to the present. Special emphasis will be placed on the use of primary source documents, the conduct of research, and the application of critical thinking and reading skills. This course fulfills the United States history graduation requirement. **(Recommendations: An “A” in 8th grade American History and a minimum score of 85% on the first semester Social Studies Benchmark Assessment) DESE 15661**

203 World History (1 Unit)

World History is a year-long required course of modern world history. This survey course places emphasis on political, social, cultural, economic, and geographic themes throughout the modern era. **(Prerequisite: Sophomore standing) DESE 156663**

202 Government (1 Unit)

American Government is a year-long required course. The course will include the study of federal, state, and local government, as well as basic economic principles. Students are required to pass both a United States Constitution test and a Missouri Constitution test to be eligible for graduation. **(Prerequisite: Junior standing) DESE 156651**

224 Contemporary Issues (1/2 Unit)

Contemporary Issues a semester elective course, analyzes contemporary events and actions of individuals, groups, and governments. The course is designed to enhance the quality of civic and cultural life of students by expanding the opportunities to discuss current issues. By providing useful interactive experiences, students become informed citizens. **(Prerequisite: Junior/Senior standing) (Students may repeat class with instructor approval.) DESE 156620**

226 Constitutional Law (1/2 Unit)

Constitutional Law is a semester elective course, is designed to provide students an opportunity to engage in an in-depth study of the American system of justice. The purpose and function of both trial and appellate courts is examined with special consideration given to the United States Supreme Court and its role in defining the rights guaranteed in the United States Constitution. **(Prerequisites: Junior/Senior standing, Government credit earned) DESE 156675**

217 General Psychology (1/2 Unit)

General Psychology is a semester elective course, is a survey of mental processes and behavior. Topics will include: foundations, physiology, learning and memory, human development, personality, and abnormal behavior. Experiments and activities will reinforce these topics. Upon completion of this course the student will have a better understanding of himself/herself and others. **(Prerequisite: Junior/Senior standing) Student will choose to take either Concepts of Psychology or General Psychology. DESE 156100-1**

218 Concepts of Psychology (1/2 Unit) cc/w

Concepts of Psychology is a semester elective course, is a college level study of mental processes and behavior. Topics will include: foundations, physiology, learning and memory, human development, personality, and abnormal behavior. Experiments and activities will reinforce these topics. An in-depth research project is required. **(Prerequisites: Junior/Senior standing and 3.0 Cumulative G.P.A.) Student will choose to take either Concepts of Psychology or General Psychology. DESE 156100-2**

221 Advanced Placement (AP) United States History (1 Unit) cc /w

AP United States History is a full year elective course offered to juniors and seniors. The course is designed to cover the history of the United States from Columbus to the present. The course explores major themes, events, people, and their relationships as well as, economic, political, diplomatic, and social issues. This college level class is a weighted grade and will develop students' reading, writing, and critical thinking skills through the use of historical documents and primary sources. This course will require extensive reading, writing, and researching. **(Recommendations: 3.5 cumulative GPA, and parent permission) DESE 115861**

220 United States Foreign Policy (1/2 Unit) /cc /w

United States Foreign is a semester elective college credit course, will focus on the policies through which the United States attempts to maintain satisfactory economic, political, and social relationships with other countries. Global interdependence is stressed. **(Prerequisites: Junior/Senior standing, United States History credit earned or concurrent enrollment, teacher recommendation.) DESE 156652**

209 Sociology (1/2 Unit)

Sociology is a semester elective course, will allow students to become aware of global cultures and their roles in society. The topics covered include sociological concepts, primary relationships, group interaction and cultural comparisons. **(Prerequisite: Junior/Senior standing and Sophomores with cumulative G.P.A. of 3.0 or higher) DESE 156670-1**

210 Social Problems (1/2 Unit)

Social Problems is a semester elective course, will provide the opportunity for students to study the problems of society and possible solutions to these problems. The student will research a variety of different topics as a course requirement. Some of the topics covered are: deviant behavior and crime, suicide, mental illness, child abuse, rape and overpopulation. **(Prerequisite: Junior/Senior standing and C or higher in Sociology) DESE 156670-2**

222 Leadership (1/2 Unit)

Leadership a semester elective course is open to grades 9-12 students interested in developing their own leadership potential. The concept of leadership will be considered from both historical and current event perspectives. The traits associated with effective leadership will be examined with an emphasis on skill attainment and development. Educational experiences will include but not limited to self-assessment, discussion, reading, research, media analysis, written and verbal presentations, guest speakers, and service project development and implementation, and community service. **(Prerequisites: student application, supportive teacher recommendations, and parent approval) DESE 156610**

219 Western Civilization (1 Unit) /cc/w

West Civilization is a year-long college credit elective, is a comprehensive treatment of Western History from ancient times through the development of early European statehood. The course will concentrate on major thematic developments and interpretations of significant events in Western History. **(Prerequisites: Senior standing and 3.0 cumulative G.P.A. or higher) DESE 156667**

227 Advanced Placement (AP) World History (1 Unit) /w

This year long course is for juniors or seniors who enjoy reading and want to learn more about the history of areas other than the United States and Europe. This course covers the time period from 1000 C.E. to the present with emphasis upon cultural technological and institutional change in a global context. The goal is to give students an understanding of the forces that have shaped the world today. The material is covered at a college level requiring research, analysis, and participation in class discussions and projects. At the end of the year, students may select to take the AP Exam for college credit through the College Board. There is a charge for the exam. **(Recommendations: 3.5 cumulative GPA, and parent permission) DESE 156663**

MATHEMATICS

311 Algebra I-A (1 Unit)

Algebra I-A, a full-year course is designed for students who are not ready for the pace of the full-year Algebra I course. Students in this course will cover the same material as students in the Algebra I course but at a slower pace. Students will learn to work with properties of equality, work with rational and irrational numbers, solve linear equations, graph linear equations and inequalities, write linear equations and solve systems of linear equations. At times, calculators may be used as an instructional tool in this course, but most often students are expected to complete calculations mentally and with pencil-and-paper.

(Prerequisite: 8th grade teacher recommendation) DESE 115810-1

312 Algebra I-B (1 Unit)

Algebra I-B, a full-year course is the second course in the Algebra I A-B series. This covers the remaining Algebra I topics not covered in Algebra I-A. Students will perform operations on and factor polynomial expressions, work with radical expressions, solve and graph both quadratic and exponential equations, and solve problems related to data and statistics. At times, calculators may be used as an instructional tool in this course, but most often students are expected to complete calculations mentally and with pencil-and-paper. **(Prerequisite: Successful completion of Algebra I-A) DESE 115810-2**

310 Algebra I (1 Unit)

Algebra I, a full-year course, provides a solid foundation of the algebraic skills necessary to progress to high-level math courses. The student will learn how to generalize mathematical concepts, solve and graph linear and quadratic equations, and solve systems of equations. At times, calculators will be used as an instructional tool in this course, but students are also expected to complete calculations mentally and with pencil-and-paper. **(Prerequisite: 8th grade teacher recommendation) DESE 115810**

336 Honors Algebra II (1 Unit) / w

Honors Algebra II is a year-long intensive math course designed to prepare students for the accelerated pace of our advanced coursework. Honors Algebra II is rigorous study of algebraic theory/concepts and real-world applications of mathematics. A variety of algebraic functions will be graphed/ analyzed with an emphasis placed on problem solving and real-world application. Students will also participate in an in-depth analysis of conic sections, trigonometry, probability and counting techniques, and discrete mathematics. Student in Honors Algebra II are continually expected to explain their thinking, analyze problems from multiple perspectives, and participate in classroom discussions. **(Prerequisite: Teacher recommendation, completed application form/parent signature, completion of Honors Geometry with a B or higher or Geometry with an A or higher, and 95% attendance) DESE 115861**

315 Geometry (1 Unit)

Geometry, a full-year course, includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts, as well as real-world problem solving situations. Students will become familiar with inductive and deductive reasoning through the construction of proofs. Students will complete compass and straightedge constructions. Geometry develops and encourages logical and critical thinking and organized thought processes. At times, calculators will be used as an instructional tool in this course, but students are also expected to complete calculations mentally and with pencil-and-paper. **(Prerequisite: Successful completion of Algebra I) DESE 115830**

313 Informal Geometry (1 Unit)

Informal Geometry is a year-long course designed for students who have completed Algebra A/B. Topics include analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts, as well as real-world problem solving situations. Students will be introduced to inductive and deductive reasoning through the construction of simple proofs. Students will complete compass and straightedge constructions. Informal Geometry develops and encourages logical and critical thinking and organized thought processes. At times, calculators will be used as an instructional tool in this course, but students are also expected to complete calculations mentally and with pencil-and-paper. **(Prerequisite: Algebra I A/B) DESE 115830**

335 Honors Geometry (1 Unit) /w

Honors Geometry is a year-long intensive math course designed to prepare students for the accelerated pace of our advanced coursework. Honors geometry includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts, as well as real-world problem solving situations. Students will become familiar with inductive and deductive reasoning through a rigorous construction of proofs. Students in Honors Geometry are continually expected to explain their thinking, analyze problems from multiple perspectives, and participate in classroom discussions. **(Prerequisite: Teacher recommendation, completed application form/parent signature, completion of Algebra I with a B or higher, and 95% attendance) DESE 115830**

320 Algebra II (1 Unit)

Algebra II, a full-year course, is a rigorous treatment of algebraic concepts. Students will thoroughly investigate algebraic theory as a prerequisite to real-world applications of mathematics. Algebraic, exponential, logarithmic and trigonometric functions and relations are defined and graphed. Properties of these functions and relations are explored in-depth and their use as mathematical concepts is emphasized. Every student should have a scientific calculator, but students will also be expected to complete calculations mentally and with pencil-and paper. **(Prerequisite: Successful completion of Geometry) DESE 115861**

323 College Preparatory Math (1 Unit)

College Preparatory Math, a full-year course, is designed to enable students to experience mathematics at an advanced level. This course is intended for college-bound students who are not necessarily planning to pursue a career in a mathematical, scientific, or technical field. Topics covered will include an extension of Algebra II, set and number theory, logic, counting methods, data analysis, and graph theory. Every student should also have a scientific calculator, but students will also be expected to complete calculations mentally and with pencil-and-paper. **(Prerequisite: Successful completion of Algebra II) DESE 115840**

325 Pre-Calculus (1 Unit)/cc/w

Pre-calculus, a full-year course, is a rigorous course designed to prepare students for calculus. The course is intended for students who plan on pursuing a college degree requiring advanced mathematics. Pre-calculus fully develops the use of trigonometric, exponential and algebraic functions, as well as graphing of both rectangular and polar coordinates. Every student should have a scientific calculator, but students will also be expected to complete calculations mentally and with pencil-and-paper.

(Prerequisite: Successful completion of Algebra II AND math department recommendation) DESE 115870

327 Statistics (1 Unit) /cc/w

Statistics, a full-year course offered for college credit, is recommended for all college-bound students. Applications of the tools of data collection and analysis, measures of central tendency, and probability will be emphasized for mathematically and non-mathematically oriented careers. Decisions-making skills based upon collected data and interpretation of statistics presented in real-life situations will be stressed. Every student should have a scientific calculator. **(Prerequisite: Successful completion or current enrollment of Algebra II AND math department recommendation) DESE 115875**

331 Computer Programming (1 Unit)/cc/w

Computer Programming, a full year course, introduces students to problem analysis, algorithm development, program documentation, code writing, debugging, and running of computer programs written in VisualStudio.NET. The course will explore the logic of looping, conditional statements, select case structure, logical expressions and operators, arrays, and user created functions, subprograms, classes, objects collections, file saving and all files. Students will also explore a variety of mathematical topics, including but not limited to, sequence and series, exponential functions, and quadratic functions.

(Prerequisite: B or above in Geometry) DESE 991105-1

332 Advanced Programming (1 Unit) /w

Advanced Programming, a year-long course, is a continuation of Computer Programming. Students will apply previous knowledge to the syntax of Java. Student will also explore advanced mathematical topics in the computer programming environment. **(Prerequisite: Successful completion of Computer Programming) DESE 991105-2**

334 Calculus (1 Unit)/cc/w

Calculus is a full-year course, and is recommended for students entering fields of study in mathematics, sciences, engineering and economics. The course includes techniques and applications of differentiation and integration of algebraic, trigonometric, exponential and logarithmic functions. Since graphing calculators are used extensively in the development of these topics, access to a graphing calculator is recommended. Students will also be expected to complete calculations mentally and with pencil-and-paper. **(Prerequisite: Successful completion of Pre-calculus AND math department recommendation) DESE 115866**

345 Advanced Placement (AP) Calculus (1 Unit) cc / w

AP Calculus is a highly rigorous, full-year course, and is recommended for students entering fields of study in mathematics, sciences, engineering and economics. The course includes techniques and applications of differentiation and integration of algebraic, trigonometric, exponential and logarithmic functions. Since graphing calculators are used extensively in the development of these topics, access to a graphing calculator is recommended. Students will also be expected to complete calculations mentally and with pencil-and-paper. This course is designed to prepare students for the Advanced Placement Calculus Exam, given near the end of the spring semester. Students are responsible for the cost of this optional exam.

(Prerequisite: Successful completion of Pre-calculus) DESE 115866

337 Mathematics Independent Study (1/2 Unit)

Mathematics Independent Study, a one-semester course, will allow the student to explore topics in mathematics outside of the math curriculum. The student and his/her sponsoring teacher will develop a course of study, which will be approved by the chairperson of the mathematics department. The course of study should include topics to be covered, a time line, and how the progress will be monitored. **(Prerequisite: Teacher Recommendation). DESE 115899**

SCIENCE

401 Physical Science (1 Unit)

Physical Science is a year-long laboratory, student centered course which focuses on the fundamental understanding of chemical and physical concepts and principles. Topics to be covered will include atoms and the periodic table, chemical bonding, chemical reactions, Newton's laws of motion, and forms of energy. Students will leave the course with a foundational knowledge in the core concepts that prepare them for further high school science courses. The course will utilize hands-on learning through laboratory investigations, applications of technology, and evaluations of scientific laws and theories. Students will communicate learning through individual and collaborative assessments, laboratory reports, and presentations. **(Prerequisite: Freshman Standing) DESE 135010**

410 Biology (1 Unit)

Biology is a year-long laboratory based course in which students will seek to understand the living world. The course will include molecular and cellular biology, genetics and heredity, diversity and unity among organisms, ecology, and biological evolution, as well as the life processes common to all living things. Scientific problem solving, inquiry based investigations, technology integration, laboratory work, and performance assessments will be utilized. **(Prerequisite: Successfully completed Physical Science. Enrollment in Biology for a full year is a requirement for every high school student) DESE 134200-1**

431 Biology 9 (1 Unit)

Biology 9 is an intensive year long, laboratory based course in which students will seek to understand the living world. The course will include molecular and cellular biology, genetics and heredity, diversity and unity among organisms, ecology, and biological evolution, as well as the life processes common to all living things. Scientific problem solving, inquiry based investigations, technology integration, laboratory work, and performance assessments will be utilized. This course requires independent study and advanced application of scientific principles related to the life sciences. **(Prerequisite: Successfully completed H.S. Physical Science in 8th grade) DESE 134200-1**

420 Chemistry (1 Unit)

Chemistry, a year long laboratory course, designed to offer students the opportunity to master fundamental principles of chemistry. The course includes classroom and laboratory instruction including proper use of laboratory equipment, use of appropriate investigation techniques, current theories and established laws, the conceptual and mathematical ideas as related to chemistry topics, such as matter, chemical reactions, molecular bonding, and solutions. To be successful it is recommended that the student earned a grade of "C" or better in Algebra I. **(Prerequisite: Sophomore, Biology, and Algebra I) DESE 134600-1**

419 General Physics (1 Unit)

General Physics, a full year laboratory course, is the study of the development and use of classical mechanics, light, heat, and sound; with a survey of electricity and modern physics. This course includes laboratory activities using computer data collection, computer analysis, computer problem solving and digital simulations. This course is recommended for all college bound students who plan a science related career. **(Prerequisite: Sophomore, Biology, & completion of Geometry (or current enrollment) DESE 135900**

423 Environmental Science I (1/2 Unit)

Environmental Science I, a semester course, is an inquiry based approach to the study of the interactions of organisms with the environment. The course will primarily consist of field work and laboratory investigations covering forestry/plants, soils, wildlife, and aquatic studies. Basic ecological principles and current environmental issues will also be an integral part of the course. **(Prerequisite: 1 Biology credit) DESE 134215-1**

424 Environmental Science II (1/2 Unit)

Environmental Science II, a semester course, is an inquiry based approach to the study of the interactions of organisms with the environment that will use inquiry to study populations, atmosphere and climate, fossil fuels and alternative energy, endangered species, solid waste and hazardous waste. Field work and proper research techniques will be an integral part of the course. **(Prerequisite: Environmental Science I) DESE 134215-2**

417 Earth Science/Astronomy and Meteorology (1/2 Unit)

Astronomy and Meteorology, a semester course, is intended for any student having an interest in learning and applying knowledge regarding the structure of the universe and the earth's dynamic weather systems. Topics include history of the universe, observational techniques of astronomy, the solar system, galaxies and other universal activities, and space exploration. Meteorological topics include the earth's dynamic atmosphere, weather mapping and forecasting, climate and weather phenomena. **(Prerequisite: 1 Biology credit) DESE 133800**

418 Earth Science/Geology (1/2 Unit)

Geology, a semester course, is intended for any student interested in studying the earth's history, the dynamics of the earth and its oceans. Topics include rock and mineral identification, topography maps, plate tectonics, weathering and erosion. **(Prerequisite: 1 Biology credit) DESE 133800**

414 Zoology (1/2 Unit)

Zoology is a semester long laboratory based science elective. Zoology will explore the diversity of the animal kingdom, focusing on the major groups of vertebrates and invertebrates. Students will study taxonomy, anatomy and physiology of the various groups of the animal kingdom. The course will explore organisms in a context that emphasizes ecology, life history and morphology. The laboratory component will include various dissections to analyze and compare the physical differences in the animal world. **(Prerequisite: 1 Biology credit) DESE 134220**

421 Applied Biology/Chemistry I (1 Unit)

Applied Biology and Chemistry I, a full year inquiry based laboratory intensive course involving math skills, communication and collaboration skills to solve simulated scientific problems. The course explores cellular biology, scientific instrumentation and technology, microbiology, medical science, chemistry and forensics. ABC I is designed to introduce the students to real world scientific problems and aid them in developing solutions to those problems **(Prerequisite: Junior standing, 1 Biology credit) DESE 134642-1**

422 Applied Biology/Chemistry II (1 Unit)

Applied Biology and Chemistry II, an extension of the concepts ABC I, is a full year inquiry based laboratory intensive course involving math skills, communication and collaboration skills to solve simulated scientific problems. The course explores environmental science, medical science, chemistry, genetics/biotechnology, and forensics. ABC II is designed to introduce the students to real world scientific problems and aid them in developing solutions to those problems. **(Prerequisite: Senior standing & successful completion of ABC I) DESE 134642-2**

426 Advanced Placement (AP) Biology (1 Unit) cc/w

AP Biology is a full year elective lab course designed to be the equivalent of a two-semester college introductory biology course. This reading and writing intensive course is organized around eight overarching themes: science as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature, and science, technology, and society. This course also includes 12 intensive laboratories with required laboratory reports. This course is designed to prepare students for the Advanced Placement Biology Exam, given near the end of the spring semester. Students are responsible for the cost of this optional exam. Due to the intensity of this program students can expect to experience a significant amount of work outside of the regular class time as part of the course. **(Prerequisites: Chemistry) (Recommendations: A cumulative GPA of 3.0, parent permission, and completion of summer assignment) DESE 134200-2**

428 Advanced Placement (AP) Chemistry (1 Unit)/cc/w

AP Chemistry is a full year elective lab course designed to be the equivalent of college introductory chemistry course. This reading and writing intensive course is organized into five components: structure of matter, states of matter, reactions, descriptive chemistry, and laboratory skills. This course includes 22 intensive laboratories with required laboratory reports. AP Chemistry is designed to prepare students for the Advanced Placement Chemistry Exam given near the end of the spring semester. Students are responsible for the cost of this optional exam. Due to the intensity of this program students can expect to experience a significant amount of work outside of the regular class time as part of the course. AP Chemistry can be taken as Advanced Chemistry for college credit. **(Prerequisites: Junior Standing and Chemistry with a "B" or higher OR a "C" with recommendation from Chemistry teacher) DESE 134600-2**

429 Human Anatomy and Physiology (1 Unit)/cc/w

Human Anatomy & Physiology, a full year laboratory course, is intended for advanced science students who wish to increase their knowledge of the human body's structure and function. The major emphasis of this course is the physical and chemical processes of the human body. Emphasis will be placed on presenting the human body as a living, functioning, homeostatic organism. Topics include body organization, cells, tissues, structure and function of the organ systems of the body, microscope use and dissection techniques. Chemistry is recommended. **(Prerequisites: Junior Standing and Biology with a "B" or higher OR a "C" in Biology with recommendation from Biology teacher) DESE 134221**

430 Advanced Physics (1 Unit)/cc/w

Advanced Physics, a full year laboratory course, is the study of the development and use of classical mechanics. Topics from light, heat, and sound, electricity and modern physics will be covered as time and student interest determine. This course includes laboratory activities using computer data collection, computer analysis, computer problem solving and digital simulations. Topics will be covered in greater depth than Physics I, and more rigorous mathematics will be used. This course is recommended for students who plan a career in physics, engineering, chemistry, mathematics or advanced medical careers. **(Prerequisite: Junior Standing "B" or better in Algebra II OR "B" or better in Physics OR Teacher recommendation) DESE 135900**

420 Science Research—1 OR 2 years (Each Year 1 Unit) /cc/w

Year 1—In year one of the science research class the students will develop presentation skills, use computer search skills to locate and retrieve journal articles from databases in their field of study, develop the skills necessary to understand journal articles and develop a scientific vocabulary. The students will also develop a research proposal in conduction with a mentor and begin conducting research.

Year 2—In year two of the science research class the students will continue with their research, develop a power point and poster presentation of that research, make presentations at the Science symposium, write a formal research paper and enter selected science contests; such as Junior Science, Engineering, and Humanities Symposium and the Missouri Consortium of Science Research. The student may elect to receive college credit at the University of Missouri-St. Louis (fee based).

Limit to 15 students. (Prerequisite: Junior Standing, student must be enrolled in an Advanced Science class, and receive recommendation from Science Department) DESE 135099

WORLD LANGUAGES

161 French I (1 Unit)

French I is a year-long course that provides students with their first experience in listening, speaking, reading and writing in French. The program is proficiency oriented, meaning that students will be able to apply what they learn. Students will learn to communicate in French in a variety of basic situations. Skills of listening and speaking will be emphasized, with students actively participating in conversation, in question-answer practice, and in short role plays, practicing French every day. Students will also start to acquire basic reading and writing skills. Cultural topics will introduce students to the lives of people in French-speaking countries. Printed, visual, and multi-media materials will be used to present an authentic view of the French language and culture. This focus on communication will be an exciting journey through the French-speaking world. **DESE 064900-1**

171 German I (1 Unit)

German I is a year-long course that provides students with their first experience in listening, speaking, reading, and writing in German. The program is proficiency oriented, meaning that students will be able to apply what they learn. Students will learn to communicate in German in a variety of basic situations such as meeting people. Skills of listening and speaking will be emphasized, with students actively participating in conversation, in question-answer practice, and in short role-plays, practicing German every day. Students will also start to acquire basic reading and writing skills. Cultural topics will introduce students to the lives of people in German-speaking countries. Printed, visual, and multi-media materials will be used to present an authentic view of the German language and culture. This focus on communication will be an exciting journey through the German-speaking world. **DESE 065100-1**

151 Spanish I (1 Unit)

Spanish I is a year-long course that provides students with their first experience in listening, speaking, reading, and writing in Spanish. The program is proficiency oriented, meaning that students will be able to apply what they learn. Students will learn to communicate in Spanish in a variety of basic situations such as meeting people. Skills of listening and speaking will be emphasized, with students actively participating in conversation in question-answer practice, and in short role-plays, practicing Spanish every day. Student will also start to acquire basic reading and writing skills. Cultural topics will introduce students to the lives of people in Spanish-speaking countries. Printed, visual, and multi-media materials will be used to present an authentic view of the Spanish language and culture. This focus on communication will be an exciting journey through the Spanish-speaking world. **DESE 066300-1**

162 French II (1 Unit)

French II is a year-long course which both reinforces and broadens students' skills in listening, reading, writing and speaking French. Emphasis will be on learning to communicate in French on topics of daily life through active participation. Students will increase their range of expression, learning to use language for many different purposes. Students will explore topics such as food and dining, recreational activities, and health and fitness. Students will read descriptions of life in French-speaking countries, and be introduced to various examples of authentic text found in the culture such as signs, advertisements, and letters. Students will integrate culture and language in a way that invites curiosity and encourages global awareness. **(Prerequisite: Level I or prior experience and Instructor Approval.)**
DESE 064900-2

172 German II (1 Unit)

German II is a year-long course which both reinforces and broadens students' skills in listening, reading, writing, and speaking German. Emphasis will be on learning to communicate in German on topics of daily life through active participation. Students will increase their range of expression, learning to use language for many different purposes. They will explore topics such as food and dining, recreational activities, and health and fitness. Students will read descriptions of life in German-speaking countries, and be introduced to various examples of authentic texts found in the culture such as signs, advertisements, and letters. Students will integrate culture and language in a way that invites curiosity and encourages global awareness. **(Prerequisite: Level I or prior experience and Instructor Approval.)**
DESE 065100-2

152 Spanish II (1 Unit)

Spanish II is a year-long course which both reinforces and broadens students' skills in listening, reading, writing, and speaking Spanish. Emphasis will be on learning to communicate in Spanish on topics of daily life through active participation. Students will increase their range of expression, learning to use language for many different purposes. Student will explore topics such as food and dining, recreational activities, and health and fitness. Students will read descriptions of life in Spanish-speaking countries, and be introduced to various examples of authentic texts found in the culture such as signs, advertisements, and letters. Students will integrate culture and language in a way that invites curiosity and encourages global awareness. **(Prerequisite: Level I or prior experience and Instructor Approval.) DESE 066300-2**

163 French III (1 Unit) cc/w

French III is a year-long course, guiding students to further expand and improve their communication skills in French so that they can understand and converse more freely and creatively. Students will use the language for many different purposes such as initiating, sustaining, and concluding a conversation, recounting a series of events, giving descriptions, etc. Knowledge of grammatical structures and culture will continue to evolve. Students will receive a weighted grade and have the option to earn college credit. **(Prerequisite: French II or prior experience and Instructor Approval.) DESE 064900-3**

173 German III (1 Unit) cc/w

German III is a year-long course that guides students to further expand and improve their communication skills in German so that they can understand and converse more freely and creatively. Students will use the language for many different purposes such as initiating, sustaining, and concluding a conversation, recounting a series of events, giving descriptions, etc. Knowledge of grammatical structures and culture will continue to evolve. Students will receive a weighted grade and have the option to earn college credit. **(Prerequisite: German II or prior experience and Instructor Approval.) DESE 065100-3**

153 Spanish III (1 Unit) cc/w

Spanish III is a year-long course that guides students to further expand and improve their communication skills in Spanish so that they can understand and converse more freely and creatively. Students will use the language for many different purposes such as initiating, sustaining, and concluding a conversation, recounting a series of events, giving descriptions, etc. Knowledge of grammatical structures and culture will continue to evolve. Students will receive a weighted grade and have the option to earn college credit. **(Prerequisite: Spanish II or prior experience and Instructor Approval.) DESE 066300-3**

164 French IV (1 Unit) cc/w

French IV is a year-long course that provides opportunities for students to increase their proficiency through active class discussion, group activities, essay writing and authentic literature. The class will be conducted almost exclusively in French. The students will increase their skills in the language through active class discussion, group activities, and essay writing. Knowledge about French culture will be expanded through a variety of cultural resources. The grammatical system of the French language will be reviewed through oral and written expression. By the end of the course, students should be able to survive on their own in the language and culture. Students will receive a weighted grade and have the option to earn college credit. **(Prerequisite: French III or prior experience and Instructor Approval.) DESE 064900-4**

174 German IV (1 Unit) cc/w

German IV is a year-long course that provides opportunities for students to increase their proficiency through active class discussion, group activities, essay writing and authentic literature. The class will be conducted almost exclusively in German. The students will increase their skills in the language through active class discussion, group activities and essay writing. Knowledge about German culture will be expanded through a variety of cultural resources. The grammatical system of the German language will be reviewed through oral and written expression. By the end of the course, students should be able to survive on their own in the language and culture. Students will receive a weighted grade and have the option to earn college credit. **(Prerequisite: German III or prior experience and Instructor Approval.) DESE 065100-4**

154 Spanish IV (1 Unit) cc/w

Spanish IV is year-long course that provides opportunities for students to increase their proficiency through active class discussion, group activities, essay writing and authentic literature. The class will be conducted almost exclusively in Spanish. The students will increase their skills in the language through active class discussion, group activities and essay writing. Knowledge about Spanish culture will be expanded through a variety of cultural resources. The grammatical system of the Spanish language will be reviewed through oral and written expression. By the end of the course, students should be able to survive on their own in the language and culture. Students will receive a weighted grade and have the option to earn college credit. **(Prerequisite: Spanish III or prior experience and Instructor Approval.) DESE 066300-4**

165 French V (1 Unit) cc/w

French V is a year-long course of independent study which allows the students to deepen their appreciation of literary masterpieces, French culture, customs, history, traditions, and business. Emphasis will be placed on higher-level thinking skills and on expressing ideas in writing. Literary and non-literary selections will be read and analyzed. Native speakers, as well as a variety of other cultural resources, will be used to improve listening comprehension. Students will be encouraged to attend French plays, movies, and other cultural events outside of class time. The study of business will enable the student to participate more fully in the global community and marketplace. **(Prerequisite: French IV or prior experience and Instructor Approval.) DESE 064900-5**

175 German V (1 Unit) cc/w

German V is a year-long course of independent study which allows the students to deepen their appreciation of literary masterpiece, German culture, customs, history, traditions and business. Emphasis will be placed on higher-level thinking skills and on expressing ideas in writing. Literary and non-literary selections will be read and analyzed. Native speakers, as well as a variety of other cultural resources, will be used to improve listening comprehension. Students will be encouraged to attend German plays, movies, and other cultural events outside of class time. The study of business will enable the students to participate more fully in the global community and marketplace. **(Prerequisite: German IV or prior experience and Instructor Approval.) DESE 065100-5**

155 Spanish V (1 Unit) cc/w

Spanish V is a year-long course of independent study which allows the students to deepen their appreciation of literary masterpieces, Spanish culture, customs, history, traditions and business. Emphasis will be placed on high level thinking skills and on expressing ideas in writing. Literary and non-literary selections will be read and analyzed. Native speakers, as well as a variety of other cultural resources, will be used to improve listening comprehension. Students will be encouraged to attend Spanish plays, movies, and other cultural events outside of class time. The study of business will enable the student to participate more fully in the global community and marketplace. **(Prerequisite: Spanish IV or prior experience and Instructor Approval.) DESE 066300-5**

FINE ART

VISUAL ART

501 Introduction to Art (1 Unit)

Introduction to Art, A year long course, is offered to grades 9- 12 and is the prerequisite to all other studio art courses. It satisfies the Fine Art requirement for graduation. Introduction to Art stimulates the student to see the environment in a new way through the use of varied experiences in art criticism and written analysis, aesthetics, art history, and art production. Art production is experienced through most of the traditional fine arts media, as well as some of the more contemporary media. Emphasis is placed on drawing from direct observation and creative problem solving. **DESE 024100**

502 Art History I (1/2 Unit)

Art History I, a semester course, is designed for students with good reading skills that may not be comfortable in studio courses and satisfies half of the required Fine Art credit for graduation. The survey course covers the development of the visual arts from the Pre-historic era to the Renaissance. Comparisons of social, cultural, and industrial concepts within any given period and their influences on the arts are studied. The artistic influences from one period to another are creatively examined. Students develop their ability to examine and analyze art intelligently. They also become acquainted with the major forms of expression and gain an understanding of art from other times and cultures. Information is taken from a classroom text, outside research materials, videos and CD-ROMS, and slide identification. The course requires a strong commitment to academic work by the student. (Student is not required to have completed Art History I before taking Art History II) **DESE 024110-1**

503 Art History II: Renaissance to Present (1/2 Unit)

Art History II, a semester course is designed for students with good reading skills that may not be comfortable in studio courses and satisfies half of the required Fine art credit for graduation. This survey course covers the development of the visual arts from Renaissance up to and including present times. Comparisons of social, cultural, and industrial concepts with any given period and their influences on the arts are studied. The artistic influences from one period to another are creatively examined. Students develop their ability to examine and analyze art intelligently. They also become acquainted with the major forms of expression and gain an understanding of art from other times and cultures. Information is taken from a classroom text, outside research materials, videos and CD-ROMS, and slide identification. This course requires a strong commitment to academic work by the student. **DESE 024110-2**

504 Ceramics (1/2 Unit)

Ceramics, a semester course, gives students an understanding of three-dimensional art that deals with the clay medium. Students design and build pottery using traditional hand building methods such as slab, coil, and pinch pot. They also use the potter's wheel to create original ceramic pieces. Students are expected to use their knowledge of the elements and principles of design to solve three-dimensional problems in clay, as well as develop the terminology related to the ceramic medium. Course assignments are presented through slides, lectures, handouts and demonstrations. Oral and/or written analysis is used throughout the course. Students participate in a final critique or project analysis of work. **(Prerequisite: Introduction to Art; Sophomore Standing)** **DESE 024126**

505 Drawing (1/2 Unit)

Drawing, a semester course, allows students to learn to create the illusion of three-dimensional form on a two-dimensional surface by using blending, stippling, hatching, and crosshatching techniques. Subject matter includes still life, human figure, portrait, landscape, and imaginative subject matter. Pencil, charcoal, pastel, crayon and pen and ink are the major media explored. Students are expected to express their knowledge of the elements and principles of design in their work and through oral and/or written analysis. Emphasis is on drawing from direct observation and on the creation of original images. Sketchbook assignments to be completed as homework are required. Students keep a portfolio of their work. **(Prerequisite: Introduction to Art; Sophomore Standing)** **DESE 024150**

506 Digital Art (1/2 Unit)

Digital Art, an introductory semester course, allows students to learn the computer as a creative tool for both the visual and graphic artist. This course is dedicated exclusively to the exploration of this electronic medium as a fine art form and promotes technology not as an end of itself, but rather as a potentially powerful tool for solving creative problems. Original images are digitized, scanned, enhanced and altered, using primarily Adobe Photoshop and Adobe Illustrator, the two fundamental programs used in the Commercial and Fine Art field. Practical and ethical issues regarding digital imaging are explored. Students keep a portfolio of their work. **(Prerequisite: Introduction to Art; Sophomore Standing)** **DESE 024190**

507 Painting (1/2 Unit)

Painting, a semester course, provides students with a variety of experiences to improve their knowledge and application of color theory through art production and analysis. Subject matter includes still life, human figure, portrait, landscape, and imaginative subject matter. A variety of media are used which may include tempera, watercolor, acrylic, and oil pastel. Emphasis is placed on rendering from observation and the creation of original images. Students keep a portfolio of their work. **(Prerequisite: Introduction to Art, Drawing: Sophomore Standing) DESE 024160**

508 Sculpture / Multi-media (1/2 Unit)

Sculpture / Multi-media is a semester course designed to provide students the opportunity to develop technical and problem solving skills as they relate to a variety of sculptural media, fibers, and printmaking. Students will apply concepts and develop terminology related to these throughout the semester. Students are expected to participate and demonstrate knowledge of key concepts and terminology as they apply to these sculptural and multi-media projects. Course assignments are presented through slides, lectures, videos, handouts and demonstrations. Oral and/or written analysis is used throughout the course to evaluate progress and comprehension. Students will participate in a final critique/analysis of their work. **(Prerequisite: Introduction to Art, Drawing or Instructor Approval) DESE 024135**

509 Photography I (1/2 Unit)

Photography I, a semester course, covers the use of a Single-Lens-Reflex camera that uses 35-mm film. The functions and uses of ISO settings, the focus ring, aperture settings, and shutter speed settings are taught. Skills taught include artistic composition, the developing of black and white film, and using an enlarger to make photographs. Assignments include creative use of camera controls, contrasting light situations, portraits and individual selection of subject matter. Lectures, worksheets, tests and written research projects are given throughout the semester. Critique and analysis of final work is incorporated throughout the semester and students keep a portfolio to review at the end of the course. **(Prerequisite: Introduction to Art and Instructor Approval; Sophomore Standing) DESE 024130-1**

510 Photography II (1/2 Unit)

Photography II, a semester course is an advanced version of Photography I. Ways to improve composition, creativity, technical control of the negative and print, and presentation are taught. Students learn new ways to manipulate the negative and print, studio lighting, and flash photography. A variety of options for subject matter are given. Photographic motivations (aesthetic, documentary, analytical and commercial) are explored. Written critiques of photographs and research will be incorporated and a portfolio will be required. **(Prerequisite: Introduction to Art, Photography I; Instructor Approval) DESE 024130-2**

511 Graphic Design (1/2 Unit)

Graphic Design, a semester course, is an introductory study of the principles and practices of graphic design, layout and typography as it applies to advertising and marketing. This course stresses a visual approach to problem solving in design, image making techniques, vocabulary, materials and production processes standard to the professional art industry. Discussion and instruction includes the purpose and effects of advertising, targeting the audience, readability, impact, and fads. Graphic Design projects include the original design and production of some of the following ; a product package; an illustration; an advertising layout for a magazine; a direct mailing and/or newspaper; a book and/or CD cover; an advertising billboard or poster; a T-shirt; a corporate or personal logo. The computer is the primary media used; however, some traditional media are utilized when necessary. Written and/or oral analysis is used throughout the course. Students keep a portfolio of their work. **(Prerequisite: Introduction to Art, Digital Art; Sophomore Standing) DESE 02417**

513 Advanced Drawing and Painting (1/2 Unit)

Advanced Drawing and Pointing, a semester course, is designed to provide the student with an in-depth study of drawing and painting. Students deal with life drawing and painting in various media. Students also deal with conceptual ideas in art and learn to advance their own problem solving abilities. Students are involved in self-critiques, as well as class critiques. Students keep a portfolio of their work. The class is an in-depth studio art experience. **(Prerequisite: Introduction to Art, Drawing, Painting) DESE 024155**

514-518 Studio Art Portfolio: (1/2 Unit)

517 SAP Digital Art

516 SAP Drawing and Painting

515 SAP Graphic Design and Illustration

518 SAP Sculpture and Ceramics

514 SAP Photography

Studio Art Portfolio, a semester course, is designed for the serious art student who wants to continue in a specific area of art beyond the course offerings. Specific experiences are contracted between instructor and student at the beginning of each course. An in-depth studio art experience is tailored to each individual student. Students who are enrolled in any of the above five options are taking this course within one of the following courses linked by similar subject matter as seen below:

Student Art Portfolio: Digital Art with Digital Art

Student Art Portfolio: Drawing and Painting with Advanced Drawing & Painting

Student Art Portfolio: Graphic Design with Graphic Design

Student Art Portfolio: Sculpture & Ceramics with either Sculpture/Multi-media or Ceramics

Student Art Portfolio: Photography with Photography II

Students keep a portfolio of their work and are expected to critique and analyze their own final art pieces, as well as those of other students and well-known artists. (**NOTE:** Students may elect to take this course more than once as long as it is in a different subject area and all the prerequisites have been met.)

Prerequisites: Instructor Approval plus

For SAP: Digital Art: Graphic Design: Digital Art; Drawing; Photo I; Graphic Design.

For SAP: Drawing and Painting: Drawing; Painting; Advanced Drawing and Painting; and either Sculpture/Multi-media OR Ceramics.

For SAP: Sculpture or Ceramics: Sculpture/Multi-media; Ceramics; Drawing; Painting; plus one other art class of choice (other than Intro to Art)

For SAP: Photography: Photography I and II: Digital Art Graphic Design; plus one other art class of choice (Other than Intro to Art) **DESE 024199**

FINE ART

THEATRE

520 Intro to Theatre (1/2 Unit)

A semester long course offered to grades 9-12. The course will satisfy one-half of the fine art graduation requirements. This course will introduce the students to the creative process as it applies to theatre. The course will involve students being introduced to the performing, technical, and historical aspects of theatre. The course will utilize several performance-based projects and some line memorization will be required. Students will be expected to attend and critique one live theatrical performance. **DESE 056550**

521 Fundamentals of Acting (1/2 Unit)

Fundamentals of Acting is a semester long course offered to students in grades 9-12. The course will satisfy one-half of the fine arts graduation requirement. Students will become aware of the creative process as it applies to acting. They will be required to prepare various memorized performances. Units of study may include performance styles, ensemble work, and individual performances. Students will be expected to attend and critique one live theatrical performance. **(Prerequisite: Grade of “C” or higher in Intro to Theatre) DESE 056520-1**

522 Fundamentals of Theatre Design and Technology (1/2 Unit)

Fundamentals of Theatre Design and Technology is a semester long course offered to students in grades 9-12. Students will explore the basic elements of theatrical design and technology. Units of study will include: theatrical safety, technical terminology, basic scene painting, elements of lighting and sound, and elements of costuming. There is no prerequisite for this course. Class size is limited. Students will be expected to attend and critique one live theatrical performance. **DESE 056550-1**

523 Film Studies I (1/2 Unit)

Film Studies I is a semester long course offered as an advanced elective to students in grades 11-12. The course explores the many styles and genres of film. The course will explore film industry, the studio system, leading directors, and current computer generated imagery and special effects. **(Prerequisite: Junior or Senior Standing) DESE 056520-1**

525 Theatre for Youth (1/2 Unit)

The class will examine the wealth of youth literature and its adaptability to live performances. Emphasis will be on improvised and prepared scripts. This course will focus on creation, development, and performance of a Theatre for Youth production. Auditions/Interviews will be held based upon available technical and acting openings in the production ensemble. Required participation in a public performance is included in the student’s grade. **(Prerequisite: Junior or Senior Standing, A grade of “C” or higher in Fundamentals of Acting and/or instructor approval) DESE 056520-2**

526 Play Production (1/2 Unit)

Play Production is a semester long repeatable course offered as an advanced elective to students who demonstrate the skills and attitude necessary to succeed in a demanding theatrical course. Students will apply knowledge acquired from previous theatrical experiences to produce, create, and perform a live theatrical production. Emphasis will be placed on developing and executing a unified production concept as well as implementing a responsible fiscal budget for the production. Auditions/Interviews will be held based upon available technical and acting openings in the production ensemble. Required participation in a public performance is included in the student’s grade. **(Prerequisite: Junior or Senior Standing and instructor approval) DESE 056550**

524 Film Studies II (1/2 Unit)

Film Studies II is a semester long course offered as an advanced elective to students in grades 11-12. Students will apply the techniques that they learned in Film Studies I. Students will explore the filmmaking process including scripting, storyboarding, editing and film making using appropriate hardware and software. **(Prerequisite: Grade of “C” or higher in Film Studies I and instructor approval; limit of 15 due to equipment) DESE 056520-2**

531 Advanced Acting (1 Unit)

Advanced Acting is a year-long advanced course offered to students in grades 10-12. The course will allow students to delve more deeply into acting techniques. Emphasis will be on performance techniques, advanced script and character analysis, theatrical movement and styles, exploration of master teacher's methods, and advanced ensemble work. Students will create a pre-professional acting multimedia portfolio. **(Prerequisite: A grade of "C" or higher in Fundamentals of Acting and/or instructor approval) DESE 056520-2**

532 Theatre Design and Technology I (1 Unit)

Theatre Design and Technology is a year-long advanced course offered to students in grades 10-12. This course is designed for those students interested in a more in depth study of theatrical design. Units of study will include theatrical safety, introduction to historical styles, basic drafting, use of stage materials, color and texture, and the usage of appropriate hardware and software for all aspects of theatrical design. **(Prerequisite: grade of "C" or high in Fundamentals of Theatre Design and Technology and/or instructor approval; class size is limited) DESE 056550-2**

533 Theatre Design and Technology II (1 Unit) cc/w

Theatre Design and Technology II is a year-long advanced course offered to students in grades 11-12. The course emphasizes the design and implementation of technical aspects of theatrical productions. Students will participate in the analysis, design, production, and critique of all aspects of the theatre process. Theatre safety, history of theatre technology, collaboration, problem-solving and advanced usage of appropriate hardware and software are fundamental aspects of the course. **(Prerequisite: grade of "C" or higher in Theatre Design and Technology I and or instructor approval; class size is limited) DESE 056550-3**

585-594 Advanced Studio Theatre Workshop (1/2 Unit)

585 Studio Theatre Workshop: Acting (cc/w)

586 Studio Theatre Workshop: Directing (cc/w)

587 Studio Theatre Workshop: Design

588 Studio Theatre Workshop: Construction

589 Studio Theatre Workshop: Lighting

590 Studio Theatre Workshop: Sound

591 Studio Theatre Workshop: Costume

592 Studio Theatre Workshop: Stage Management

593 Studio Theatre Workshop: Dramaturgy

594 Studio Theatre Workshop: Film

Studio Theatre Workshop is a semester long advanced course offered for the serious theatre student in grades 11-12 who wants to continue in a specific area of theatre study. Specific experiences are contracted between instructor and student at the beginning of each course. An in-depth studio theatre experience is tailored to each individual student. This course is an honor course with a weighted grade. Students will be required to present a portfolio to the instructor for admission consideration.

(Prerequisite: Junior or Senior Standing and Instructor Approval) DESE 056599

FINE ART

MUSIC

540 Music In Our Lives (1/2 Unit)

Music In Our Lives is a semester, nonperforming class. The course views music from a social context as a natural and essential ingredient in the student's own life and also as related to human life in all cultures and historical times. Many types of music will be studied, from ancient to modern, serious to popular. Students will be encouraged to understand the uses of music as a human expression and as a social marker of a certain time and culture, and to respond intelligently to a wide range of styles. Career opportunities in music will also be explored. **DESE 126910**

542 Women's Choir (1 Unit)

Women's Choir is a year-long course open to girls interested in vocal and choral music. The study of terms, vocal techniques, music theory and history, sight singing and performance skills will be emphasized through a variety of choral literature. Required extra-curricular concert participation is included in the student's grade. **DESE 126960-1**

543 Men's Choir (1 Unit)

Men's choir is a year-long course open to boys interested in vocal and choral music. The study of terms, vocal techniques, music theory and history, sight singing and performance skills will be emphasized through a variety of choral literature. Required extra-curricular concert participation is included in student's grade. **(Prerequisite: Instructor Approval) DESE 126960-1**

544 Concert Choir (Grades 10-12, Grade 9 under special circumstances with the teacher's approval) (1 Unit)

Concert Choir is a year-long course open to students interested in vocal and choral music who have shown the skills and abilities necessary to succeed in a moderately advanced performance group. Students will be accepted into the group through audition based upon available openings per voice section to maintain proper balance. The study of terms, vocal techniques, music theory and history, sight singing and performance skills will be emphasized through a variety of choral literature. Required extra-curricular concert participation is included in the student's grade. **(Prerequisite: Instructor's Approval) DESE 126960-2**

545 Chamber Choir (1 Unit)

Chamber Choir is a year-long course that will generally be considered an advanced performing group of students who show the vocal skills and maturity of attitude necessary to succeed in a demanding course. The advanced study of terms, vocal techniques, music theory and history, sight singing and performance skills will be emphasized through a variety of choral literature, with an emphasis on chamber choir literature, madrigals, and jazz/show choir music. Auditions will be held the previous spring based upon available openings per voice section to maintain proper balance. Required extra-curricular concert participation is included in the student's grade. **(Prerequisite: Instructor's Approval) DESE 126960-3**

548 Beginning Band Grades 9-12 (1/2 Unit)

High School Beginning Band is a semester-long, non-performance based course, designed to meet the needs of those students that would like the opportunity to learn to play a musical instrument who did not start in Middle School. Those students who would like to learn a secondary instrument for personal development should consider this class as well. Instrumentation is limited to wind and percussion instruments only. Upon completion of this course, the student will be expected to enroll in a Band class. Students will need to supply their own instruments, except for large instruments provided by the school.

(Prerequisite: Instructor Approval) DESE 125510-1

551 Symphonic Band (1 Unit)

Symphonic Band is a year-long, performance-based course, designed to further refine the skills that students learn in High School Beginning Band or Middle School Band. Members are chosen by audition and consent of the Band Director, the spring prior to any given school year. Membership in Marching Band is required of all Symphonic Band members, unless exempted by director. A variety of literature will be studied and performed from different styles and periods of music history, including original band music, orchestral transcriptions and well known and varied standard works for band. Members will be encouraged to participate in district and/or state Solo and Ensemble Festival. The band will also perform in an adjudicated Large Ensemble Festival. Extra-curricular rehearsals and performances will be required; some of which will begin prior to the school year. Attendance at these rehearsals and performances will be required as a part of the student's grade. **(Prerequisite: Audition and Instructor Approval) DESE 125510-2**

552 Symphonic Wind Ensemble (1 Unit)

Symphonic Wind Ensemble is a year-long, performance-based course, designed to further refine the skills that students learn in High School Beginning Band, Symphonic Band or Middle School Band. Students involved will be more experienced instrumentalists. Members are chosen by audition and consent of the Band Director, the spring prior to any given school year. Membership in Marching Band is required of all Symphonic Wind Ensemble members, unless exempted by director. A variety of literature will be studied and performed from different styles and periods of music history, including original band music, orchestral transcriptions and well known and varied standard works for band. Members will be encouraged to participate in district and/or state Solo and Ensemble Festival. The band will also perform in an adjudicated Large Ensemble Festival. Extra-curricular rehearsals and performances will be required; some of which will begin prior to the school year. Attendance at rehearsals and performances will be required as a part of the student's grade. **(Prerequisite: Audition & Instructor Approval) DESE 125510-3**

553 Jazz Band Grades 10-12, Grade 9 with the teacher's approval (1 Unit)

Jazz Band is a year-long performance based course designed to be a highly selective performing group. Membership is by audition only. Students must be co-enrolled in Symphonic Band or Wind Ensemble, or must have successfully completed two years of Symphonic Band or Symphonic Wind Ensemble, with the exception of piano, bass, and guitar, at the discretion of the band director. The traditional Jazz Band instrumentation will be used. A variety of jazz styles will be studied and performed. Emphasis will be on listening to the art of jazz improvisation. Extensive extra-curricular performances are required and attendance is part of the students' grade. **(Prerequisite: Audition and Instructor Approval) DESE 125540-1**

554 Jazz Improvisation Lab (1/2 Unit)

Jazz Improvisation Lab is a single semester non-performance based class. The class is open to students who are proficient on a traditional band instrument, orchestra instrument or voice (upon recommendation of the band, choir or orchestra director). Emphasis will be placed on the development of improvisational techniques through the extensive study of chords, scales, and theory. The performance practices of various jazz artists that have been influential in the development of jazz as an art form will be studied. **(Prerequisite: Students must be enrolled in band, choir or orchestra and Instructor Approval) DESE 125540-1**

555 Chamber Orchestra (1 Unit)

Chamber Orchestra is a performing Orchestra. Training is provided in the technical skills and music reading skills needed to perform standard string orchestra literature. Students will perform music from a broad range of styles. Attendance at scheduled performances and after school rehearsals is mandatory and is a part the student's grade. Chamber orchestra is a non-auditioned class. All students will provide their own instruments. Students who play cello and bass do not need to transport their instruments to school. Students are encouraged to participate in appropriate enrichment opportunities, such as private lessons, Metro 8 Honors Orchestra, All State Orchestra, District and State Solo and Ensemble Festival, and various community orchestras. **DESE 125520-1**

556 Symphonic Orchestra (1 Unit)

Symphonic Orchestra is a year-long performing ensemble. Admittance to this class is by audition or by the director's approval. Further training is provided in technique and music reading skills needed to perform advanced string orchestra literature. Students will perform music from a broad range of styles. Symphonic Orchestra will prepare students for performing beyond the high school level. Attendance at scheduled performances and after school rehearsals is mandatory and is a part the student's grade. All students will provide their own instruments. Students who play cello and bass do not need to transport their instruments to school. Students are encouraged to participate in appropriate enrichment opportunities, such as private lessons, Metro 8 Honors Orchestra, All State Orchestra, District and State Solo and Ensemble Festival, and various community orchestras. **DESE 125520-2**

557 Music Theory (1/2 Unit)

Music Theory is a semester course designed for serious music students who desire to go further in music study. Theory includes note reading, scale construction, interval study, basic chord structure, ear training, melodic and rhythmic development, extended harmonic structure, and simple part writing. **(Prerequisite: Instructor Approval) DESE 126930**

560 Class Guitar I (1/2 Unit)

Class Guitar I is a semester course in basic music fundamentals which will be taught using the guitar. This course is not designed for students with guitar experience. Instruments will be provided for students who cannot supply their own. The fundamentals of acoustic guitar playing will be taught, including tuning, playing technique, basic music notation, and sight reading. The student will learn to play melody lines as well as basic chords in several keys. Only acoustic guitars will be used. Opportunities will be given to play both alone and in ensembles. **Class size is limited. DESE 125525-1**

561 Class Guitar II (9-12) (1/2 Unit)

Class Guitar II is a semester course where students will learn advanced techniques in guitar performance. Students continue to receive instruction in music reading skills, right and left hand techniques and ensemble performance. Music in a variety of different styles will be studied. The course will prepare students to perform the guitar as a melodic and accompanying instrument beyond high school. **Class size is limited. (Prerequisite: Instructor Approval) DESE 125525-2**

562 Advanced Music Ensemble (11-12) (1 Unit) cc/w

Symphonic Wind Ensemble
Symphonic Orchestra
Chamber Choir
Concert Choir
Jazz Band

To be considered for acceptance in the Honors Music Ensembles course, students must have completed an application by the deadline and then be approved by the instructors. The Honors Music Ensembles courses are bound by the same course description as the corresponding regular ensemble. To receive honors credit for the ensemble, the following additional requirements must be met: **(Prerequisite: Completed application and Instructor Approval)**

- 1) Student must prepare for and audition for District Honors Ensemble during first semester. If the student is selected for District Honors, he/she must also prepare for and audition for State.
- 2) Student must prepare a solo and participate in District Solo and Ensemble Festival. If the student receives a Superior (I) Rating at District, he/she must also do that solo at State.
- 3) Student must complete a research project, including a paper and do a presentation on the subject.
- 4) Student must prepare for and complete a jury for music faculty in their school.
- 5) Student must study with a mentor, which may be an approved private instructor, or another approved mentor.
- 6) Student must function satisfactorily in a leadership role within the ensemble.
- 7) Student must compile a portfolio of work representative of their efforts. **DESE 125510-4**

PRACTICAL ARTS

FAMILY AND CONSUMER SCIENCES

601 Exploratory Family and Consumer Science (1/2 Unit)

Exploratory Family & Consumer Science is a semester course that is designed to include several areas of Family and Consumer Sciences. Students will study and experience practical applications of nutrition and wellness, community leadership, child development, and human relations. A variety of skills will be incorporated into the classroom including decision making, job/career skills, and beginning sewing techniques. Other areas of study will include career education, interpersonal relationships, and FCCLA. The class includes a balance of class work, demonstrations, and hands-on experience. **DESE 096801**

604 Career and Family Leadership (1/2 Unit)

Class Description: Career and Family Leadership is a class that students will learn to be a responsible citizen and family member, explore job skills and careers, and use decision making skills to strengthen their role as individuals, family, career, and community members. **(Prerequisite: None) DESE 096801**

602 Fashion Basics I (1/2 Unit)

Fashion Basics is a semester course where students will be introduced to the exciting and rapidly changing field of fashion, clothing construction, and the technology that supports the field. Students will construct projects using developed sewing skills through the use of a serger, a sewing machine, and an embroidery machine. Careers will be explored. Project supplies are the responsibility of the student. **(Prerequisite: Exploratory Family and Consumer Sciences or Senior Survival) DESE 096820**

603 Fashion Basics II (1/2 Unit)

Fashion Basics II is a semester course where students get the chance to create their own style by individualizing and customizing their projects. It provides the student with strategies and practice that develop a background to be used personally and professionally. Students build from skills learned in Fashion Basics using new computerized technology. Project equipment and supplies are the responsibility of the student. **(Prerequisite: Completion of Fashion Basics I with a C or better) DESE 096822**

605 Food and Nutrition (1/2 Unit)

Food and Nutrition is a semester course designed to teach the importance of recognizing the characteristics of overall wellness by making nutritious food selections and adding exercise to your daily routine. In this course, students will discuss, plan, and prepare nutritious variations of their favorite foods. Students will learn how to use the food guide pyramid on mypyramid.gov then apply that to make nutritious selections for menu planning. **(Prerequisite: Completion of Exploratory Family Consumer Science or Senior Survival) DESE 096824**

606 Culinary Arts I (1/2 Unit)

Culinary Arts I is an introductory semester course designed for students who have a desire to work in the food industry. The course will focus on basic food preparation and presentation, knowledge and skills along with accurate measuring techniques. Emphasis will also be placed on food safety and sanitation. Students will have the opportunity to earn a Pro Start certification upon completion of Culinary Arts I & II. **(Prerequisite: Junior standing and successful completion of Food and Nutrition at the high school level with a "C" or higher and/or teacher permission) DESE 096827-1**

607 Culinary Arts II (1/2 Unit)

A semester course designed for students who have a strong desire to work in the food industry. This course will build concepts taught in Culinary Arts I. Emphasis will be placed on food safety and presentation, restaurant management and ownership, design and organization of food service systems, purchasing and related business practices. Units in the catering process and other entrepreneur opportunities will be included. Students will have the opportunity to earn a Pro Start certification after completion of this course. **(Prerequisite: Successful completion of Culinary Arts I with a C or higher and/or teacher permission) DESE 096827-2**

610 Family and Individual Health (1/2 Unit)

Family and Individual Health is a semester course that focuses on the importance of family wellness. Students will experience health skills, such as decision-making, goal setting, building self-esteem, communication skills, refusal skills and conflict resolution. Topics will include personal health, mental and emotional health, relationships and sexuality, violence prevention, consumer and community health issues and safety and first aid. **(Prerequisite: Freshman standing) DESE 096840**

615 Housing and Interior Design (1/2 Unit)

Housing and Interior Design is a semester course that explores the psychological, social, cultural, and economical aspects of family and personal shelter. Students will investigate architectural styles, furniture styles, and housing trends. Students will demonstrate color, elements, and principles of interior design by creating various projects, including designing a dream home. Students will apply home related technology and green living to their projects. Career opportunities in Housing and Interior Design will be explored. **(Prerequisite: Sophomore standing) DESE 096818**

616 Family Relationships (1/2 Unit)

Family Relationships is a semester course designed to help prepare students for the ever-changing roles of adults. The course will focus on life skills students will use through adolescence to adulthood. Topics will include: interpersonal communications, dating and mate selection, engagement and marriage, parenthood, life adjustments and crisis management. **(Prerequisite: Junior standing) DESE 096814**

621 Senior Survival (1/2 Unit)

Senior survival is a semester, exploratory course designed to prepare students of senior standing to be independent after high school. This class includes a study of nutrition, meal planning, and food preparation techniques; a study of basic clothing skills, incorporating clothing care, machine and hand sewing skills; consumer economics, highlighting affordable housing, preparing to live on your own and planning for your future. Job skills, careers, decision making, and interpersonal relationships are emphasized as well. This class includes a balance of class work, demonstrations, and hands on experience. **(Prerequisite: Senior standing who have not taken Exploratory Family and Consumer Science). DESE 096801**

618 Child Development I (1/2 Unit)

Child Development I is a semester course that provides instruction in the care, guidance, understanding and appreciation of children in their growth and development. Instruction will include all stages and characteristics of development with a focus on birth through adolescence. Units of study also include multiple aspects of health, safety, special needs, and careers related to child development. Students who are interested in parenting, early childhood education, elementary education, or any other child-related career should take this course. Child Development is also a prerequisite to Child Development II. **(Prerequisite: Sophomore standing) DESE 096821**

619 Child Development II (1/2 Unit)

Child Development II is a semester course that examines the personal and professional characteristics needed by individuals seeking a career working with children. Students will continue to study the developmental areas of childhood that they learned in Child Development I. They will explore the field of child development through classroom instruction, observations and first-hand experiences with children. Units include exploring ethics and professionalism in child development careers, analyzing developmental stages, appraising health concerns, providing children's activities, establishing a quality childcare program, and interacting with children. This class is beneficial for students who are interested in a career related to working with children. **(Prerequisite: Junior Standing and committee approval and completion of Child Development I with a grade of a C or higher) DESE 096831-1**

620 Child Development III (Individualized Independent Study) (1/2 Unit)

Child Development III is a semester course that offers students who have completed two semesters of Child Development courses an opportunity for more advanced learning. Students will continue to explore the field of child development through hands-on experience with children in the preschool lab. The students will observe community child care centers, prepare for completion of the eligibility requirements for Child Development Associates (CDA), and serve as a resource and leader to Child Development II students, while demonstrating professional behaviors and attitudes. Students will explore careers in Child Care, Elementary and Early Childhood Education.

Child Development III involves the participation of high school students with community children. It is imperative that the students enrolled in these classes be in good standing and have a sincere desire to work with young children. The candidates for Child Development III must be evaluated by a committee made up of all Family and Consumer Science teachers in the building. **(Prerequisite: Junior Standing and committee approval and completion of Child Development II with a grade of a "B" or higher) DESE 096831-2**

624-628 FACS Independent Study (1/2 Unit)

624 Fashion Practicum

Individual Enrichment Study/Fashion Practicum students will demonstrate a practical application of fashion design to pattern making, advanced construction, and/or fabric embellishment related to the area of fashion study suggested by the individual learner. Students will select areas of interest and projects with approval by the instructor. The student will meet daily, working with the teacher on an independent basis during the semester long course. Assessment will include a portfolio related to fashion, selected project work and a visual display. Participation approved by instructor. **(Prerequisite: Completion of Fashion Basics I and II with a B or better)**

625 Culinary Arts Practicum

Individual Enrichment Study/Culinary Arts Practicum students will demonstrate professional food preparation methods and techniques for all menu categories to produce a variety of food products, demonstrate menu planning principles and techniques based on standardized recipes, and implement food service management and leadership. Students will select areas of interest and project with approval by the instructor. The student will meet daily, working with the teacher on an independent basis during the semester long course. Assessment will include a portfolio related to culinary arts, selected project work and a visual display. Participation approved by instructor. **(Prerequisite: Completion of Culinary I and II with a B or better)**

626 Housing and Interior Design Practicum

Individual Enrichment Study/Housing and Interior Design Practicum students will analyze influences on architectural and furniture designs and evaluate client's needs, goals, and resources in creating design plans for housing, interiors, and furnishings. Students will select areas of interest and projects with approval by the instructor. The student will meet daily, working with the teacher on an independent basis during the semester long course. Assessment will include a portfolio related to housing and interior design, selected project work and a visual display. Participation approved by instructor. **(Prerequisite: Completion of Housing and Interior Design)**

627 Child Development Practicum

Child Development Practicum is a semester course that offers students with a sincere interest in working with children, the opportunity to further their education in the child care field. Emphasis is placed on preparation in gaining a Child Development Associates (CDA). Students will gain additional hours in the high school Preschool Laboratory to count towards their CDA hours. Students will teach sample lessons to Child Development II and III students. Assessment will include a portfolio to be use in the college and job application process. Participation is approved by instructor. **(Prerequisite: Completion of Child Development III with a B or better)**

628 Family and Consumer Science Practicum

Individual Enrichment Study/Family and Consumer Science Practicum is for students interested in the field of teaching Family and Consumer Sciences. Students will explore all aspects of this area by observation and participation in classes. The student will meet daily, working with the teacher on an independent basis during the semester long course. Assessment will include a portfolio related to Family and Consumer Sciences, selected project work, and lesson plans. Participation is approved by instructor. **(Prerequisite: Exploratory Family and Consumer Sciences plus any two other Family and Consumer Science Classes) DESE 096899**

PRACTICAL ARTS

BUSINESS and MARKETING/VOCATIONAL EDUCATION

632 Word Processing (1/2 Unit)

Word Processing is a semester course designed to teach proper keyboarding techniques and computer skills. The course is taught on computers using a word processing program. Accuracy, speed, and basic formatting skills are emphasized. Students will be able to use their word processing skills to create a variety of personal and business documents. **(This course is recommended for the student that has not had keyboarding.) DESE 034390**

633 Computer Applications (1/2 Unit)

Computer Applications a semester course, is designed to teach fundamental concepts of word processing spreadsheet, database, email and presentation software. Safe online communication including a variety of Internet activities will be explored. **DESE 034352**

634 Principles of Business (1/2 Unit)

Principles of Business is a semester course which will explore many areas of the business community. This course is designed as an introductory course which will include discussion and research in economics, the free enterprise system, international business, entrepreneurship, business organizations, basic marketing and occupational opportunities. **DESE 034300**

638 Business Web Design/Multimedia (1/2 Unit)

Business Web Design/Multimedia is a semester course. Students will learn software that is currently available to produce and publish web pages on the Internet. In addition, other concepts relevant to promoting a business will be addressed by exploring photo, audio, video editing and game programming. **(Seniors enrolled in Business Web Design/Multimedia may enroll in Business Internship to earn an additional .5 to 1 credit while employed within an approved place of business.) DESE 034393**

631 Desktop Publishing (1/2 Unit)

Desktop Publishing is a semester course designed to teach the fundamentals needed to produce quality publications such as flyers, brochures, calendars, storybooks, CD covers, magazine advertisements, letterhead, business cards, signs and certificates. **(Seniors enrolled in Desktop Publishing may enroll in Business Internship to earn an additional .5 to 1 credit while employed with an approved place of business.) DESE 034353**

6490 Advanced Computer Applications (1 Unit) cc/w

Advanced Computer Applications is a full-year, weighted course that can be taken for college credit. Students will learn advanced word processing, spreadsheet, database, and presentation software. Other areas explored will include desktop publishing, online communications, social media and web design. Communication, organization, and personal development skills will be integrated throughout the course. **(Prerequisite: Computer Applications) (Seniors enrolled in College Credit Computer Applications may enroll in Business Internship to earn an additional .5 to 1 credit while employed within an approved place of business.) DESE 034352**

667 Business Internship (1 or 2 Units)

Earn while you learn! The Business Internship program coordinates with on-the-job work experience which gives the students the opportunity to apply academic and workplace skills. A student may earn ½ unit of credit per semester for working an average of 10 hours per week or 1 full unit of credit per semester for working an average of 20 hours per week. Each student must be classified at a senior status prior to the beginning of the term, must be enrolled in a secure approved employment, complete an application, provide character recommendations and receive approval from the instructor. **(Prerequisite: Senior Standing, Approved Application, and enrollment in one of the following classes: Business Web Design/Multimedia, Desktop Publishing, Advanced Computer Applications, or Advanced Accounting.) DESE 034380**

636 Personal Finance (1/2 Unit)

Personal Finance is a semester course which will give students a basic understanding of money, banking, investment, credit and consumer buying issues. Simulated activities are used to make these topics more relevant to the student. (Prerequisite: Sophomore standing required - Course recommended for Juniors) **DESE 996400**

640 Business and Personal Law (1/2 Unit)

Business and Personal Law is a semester class designed to give students an understanding of the legal system. Topics discussed include: civil law, the court system, employment law, contracts, consumer rights, negotiable instruments, and bailments. If you have an interest in the legal system, this would be a great introductory course. **DESE 034321**

652 Entrepreneurship (1/2 Unit)

Entrepreneurship is a semester course designed to provide students with the basic knowledge of operating and maintaining a self-owned business. Students are given the opportunity to learn the advantages and disadvantages of business ownership, as well as, the decision making process of choosing a business location and securing a loan to insure a successful business venture. **(Prerequisite: Junior or Senior Standing) DESE 034305**

639 Business and Event Management (1/2 Unit)

Business and Event Management is a semester course designed to learn the basics of business management, operating finances, facility operations and legal and ethical issues in the following areas: Sports, Music, Venue and Event Planning. **DESE 034301**

6460 Accounting (1 Unit)

Are you thinking of majoring in business or marketing in college? Do you plan to own your own business? If so, you will need to have an understanding of the accounting process, so why not get a step ahead while you are in high school? This full-year course is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures which are necessary for businesses to make financial decisions. Successful completion of this class will prepare you to take the College Credit Accounting Course. **DESE 034310**

6470 Advanced Accounting (1 Unit) cc/w

Advanced Accounting is a full-year, weighted course that can be taken for college credit. This course is designed to help students acquire a more thorough, in-depth knowledge of the manual and automated accounting procedures and techniques utilized in following generally accepted accounting principles. With an emphasis in corporate accounting, students will learn control systems, adjustments, and skills necessary to prepare accurate financial statements and supporting schedules. **(Prerequisite: Accounting I) (Seniors enrolled in College Credit Accounting may dually enroll in Business Internship to receive either a .5 or 1 credit while employed in an approved place of business.) DESE 034301**

648 Business Independent Study (1/2 Unit)

This independent study is designed for the student wanting to further explore business topics beyond the course offerings. **(Prerequisite: Senior Standing) (Seniors enrolled in Independent Study may enroll in Business Internship to earn an additional .5 to 1 credit while employed within an approved place of business.) DESE 034399**

642 Marketing Concepts (1 Unit)

Marketing Concepts is year-long course that introduces students to one of the top career areas in the global economy. Students will examine the marketing process of creating, promoting, and selling products through the use of the marketing mix (product, place, price and promotion). Students will also learn how the marketing process is used to build customer loyalty and branding. Areas of emphasis include marketing segmentation, advertising, promotion, sales, brand management, and marketing research. **(Seniors enrolled in this course may concurrently take Marketing Internship.) DESE 040001**

655 Sports and Entertainment Marketing (1/2 Unit)

This course introduces students to the exciting field of sports and entertainment. Students will explore topics such as product and pricing strategies, market research and segmentation, promotion, publicity, endorsements, and event marketing as they apply to these specialized fields. **(Prerequisite: Marketing Concepts; Seniors may concurrently take Marketing Internship). DESE 040014**

656 Advertising and Promotion (1/2 Unit)

This course examines the many aspects of advertising and promotion, including campaign planning, creative message development, media selection, and the various tools of communication. Students will learn about the main steps in advertising campaign development as well as the nature and structure of advertising agencies.

(Prerequisite: Marketing Concepts; Seniors may concurrently take Marketing Internship) DESE 040009

659 Retail and Hospitality (1/2 Unit)

This course is designed around two of the most exciting and competitive industries in the world, Retailing and Hospitality. Students will be introduced to these industries and examine their strategies for industry operations and success. Activities will focus on customer service, pricing, store design, visual merchandising and e-tailing strategies as used in restaurants, travel agencies, hotels, spas, and retail businesses. **(Prerequisite: Marketing Concepts; Seniors may concurrently take Marketing Internship) DESE 040006**

668 Marketing Internship (1/2 unit – 1 Unit) per semester

The Marketing Internship Program is designed to bring the marketing concepts taught in the classroom to life through part-time, marketing-related employment. This experience will provide an opportunity for work experience and develop self-confidence in the student as they are confronted with the demands of a boss, co-workers, and the public. It will provide self-satisfaction as the student starts to earn an income while completing necessary employment records and marketing-related assignments for the classroom. **DESE 040080**

- A student may earn ½ unit of credit per semester for working an average of 10 hours per week or 1 full unit of credit per semester for working an average of 20 hours per week.
- Each student must be classified at a senior status prior to the beginning of the term, must be enrolled in a marketing class, secure approved employment, complete an application, and receive approval from the instructor.

PRACTICAL ARTS

INDUSTRIAL TECHNOLOGY

700 Introduction to Metal Technology (1/2 Unit)

Introduction to Metals Technology, a semester course, provides an introduction to fundamental metalworking skills. Selected projects and exercises are used to show the basic processes involved in the following areas; sheet metal, measuring and layout, hand tools, hand threading, foundry, heat-treating, forging, and safety. This course is highly recommended for students interested in careers related to industrial technology and engineering. **DESE 105470-1**

701 Applied Metal Technology (1/2 Unit)

Applied Metal Technology, a semester course, introduces skills used in machine shop areas. Precision measuring will be introduced. The emphasis is on safe operation and set up of the lathe and milling machines, gas and arc welding, foundry, forging, heat-treating, and safety. This course is highly recommended for students interested in careers related to industrial technology, machinist, tool and die design, and engineering. **(Prerequisite: Introduction to Metal Tech with a minimum grade of C or Instructor Approval) DESE 105470-2**

702 Engineering Metal Technology (1/2 Unit)

Engineering Metal Technology, a semester course, designed to allow the advanced student the opportunity to concentrate their studies in an area of interest within the Metal Tech subject. In depth research, study, and practical experience will be assigned on an individual basis with the idea that the student will eventually design their own course of study. This course may be taken up to six times with different areas of study under the Metal Tech subject with increasingly more complex projects. A completed application form is required from the student and must be approved by the instructor. The emphasis is on advanced metalworking processes and project design. Advanced skills will be used in sheet metal, metal lathe and milling machine set up and operations, gas, arc, and MIG welding, machine tool sharpening, and safety. This course is highly recommended for students interested in careers related to industrial technology, machinist, tool and die design, and engineering. **(Prerequisite: Applied Metal Tech with a minimum grade of C and Instructor Approval) DESE 105470-3**

710 Introduction to Wood Technology (1/2 Unit)

Introduction to Wood Technology, a semester course, provides an introduction to fundamental woodworking skills. Selected projects and exercises are used to show the basic processes involved in the following areas; wood identification, use of hand and power tools, wood joinery, machine setup and operation, wood finishing, and safety. This course is highly recommended for students interested in careers related to construction systems, industrial technology, and engineering. **DESE 105482-1**

711 Applied Wood Technology (1/2 Unit)

Applied Wood Technology, a semester course, expands the student's knowledge, skills, and experiences in woodworking. The wood lathe and turning projects are introduced, as well as, the use of fixtures and jigs. Project planning and design are emphasized to build projects safely and efficiently with hand and power tools. This course is highly recommended for students interested in careers related to construction systems, industrial technology, and engineering. **(Prerequisite: Introduction to Wood Tech with a minimum grade of C or Instructor Approval) DESE 105482-2**

712 Engineering Wood Technology (1/2 Unit)

Engineering Wood Technology, a semester course, designed to allow the advanced student the opportunity to concentrate their studies in an area of interest within the Wood Tech subject. In depth research, study, and practical experience will be assigned on an individual basis with the idea that the student will eventually design their own course of study. This course may be taken up to six times with different areas of study under the Wood Tech subject with increasingly more complex projects. A completed application form is required from the student and must be approved by the instructor. The emphasis is centered on the mastery of power tools and woodworking machines. Through advanced woodworking techniques and student made fixtures and jigs, each student will design and construct an advanced wood project. This course is highly recommended for students interested in careers related to construction systems, industrial technology, and engineering. **(Prerequisite: Applied Wood Tech with a minimum grade of C and Instructor Approval) DESE 105482-3**

720 Introduction to Drafting (1/2 Unit)

Introduction to Drafting, a semester course, introduces the student to the fundamentals of mechanical drafting. The student should have a good background in basic mathematics. Concepts covered include sketching, care and use of equipment, line quality, geometric construction, orthographic projection, dimensioning, isometric and oblique drawings, two point perspectives, and career information. This course is highly recommended for students interested in careers related to industrial technology, drafting and design technology, and engineering. **DESE 105430-1**

721 Introduction to CADD (Computer Aided Drafting & Design (1/2 Unit)

Introduction to CADD (Computer-Aided Drafting and Design), a semester course, expands the concepts from Introduction to Drafting. A CADD software system will be used as the drawing instrument. Students will problem solve to design and create complex drawings. This course is highly recommended for students interested in careers related to industrial technology, manufacturing and robotics technology, and engineering. **(Prerequisite: Introduction to Drafting with a minimum grade C or Instructor Approval) DESE 105430-2**

722 3-D Solid Modeling (1/2 Unit)

3-D Solid Modeling is a semester course, which extends the concepts from Introduction to CADD though the use of a 3-D CADD software system. Through surface and solid modeling, students will create and edit 3D shapes using a parametric coordinate system. This course is highly recommended for students interested in careers related to industrial technology, manufacturing and robotics technology and engineering. **(Prerequisite: Introduction to CADD with a minimum grade of C and Instructor Approval) DESE 105430-3**

723 Introduction to Architectural Drafting (1/2 Unit)

Introduction to Architectural Drafting, semester course provides opportunities for students to design, redesign, and draw sets of architectural construction plans. Architectural CADD software system will be introduced to help facilitate complex drawings. This course is highly recommended for students interested in careers related to construction systems, architecture, and civil engineering. **(Prerequisite: Introduction to Drafting with a minimum grade of C and Instructor Approval) DESE 105431-1**

724 Applied Architectural Drafting (1/2 Unit)

Applied Architectural Drafting, a semester course, extends concepts from Introduction to Architectural Drafting with information necessary for planning various types of dwellings. An architectural CADD software system will be used as the main drawing instrument. This course is highly recommended for students interested in careers related to construction systems, architecture, and civil engineering. **(Prerequisite: Introduction to Architectural Drafting with a minimum grade of C or Instructor Approval) DESE 105431-2**

730 Introduction to Media Technology (1/2 Unit)

Introduction to Media Technology is a semester course, which introduces students to the fundamentals of audio and video production, animation, web page design, and digital imaging. Through these technologies, students will operate the leading graphics programs used in industry today to create and design their own projects. This course is highly recommended for students interested in careers related to industrial technology, mass communication, journalism, and commercial graphics. **DESE 105435-1**

731 Applied Media Technology (1/2 Unit)

Applied Media Technology, is a semester course, which extends the concepts from Introduction to Media Technologies. The students will advance their study of audio and video production, animation, web page design, and digital imaging learning new software techniques. Computer software will allow students to individually research and design complex projects of their own interests. This course is highly recommended for students interested in careers related to industrial technology, mass communication, journalism, and commercial graphics. **(Prerequisite: Introduction to Media Technology with a minimum grade of C or Instructor Approval) DESE 105435-2**

732 Advanced Media Technology (1/2 Unit)

Advanced Media Technology, a semester course, designed to allow the advanced student the opportunity to concentrate their studies in an area of interest within the Media Tech subject. In depth research, study, and practical experience will be assigned on an individual basis with the idea that the student will eventually design their own course of study. This course may be taken up to six times with different areas of study under the Media Tech subject with increasingly more complex projects. A completed application form is required from the student and must be approved by the instructor. This course offers the advanced student the opportunity to enhance their skills, toward a mastery level, in TV video production, web page and/or animation processes. Computer software will allow students to individually research and design complex projects of their own interests. This course is highly recommended for students interested in careers related to industrial technology, mass communication, journalism, and commercial graphics. **(Prerequisite: Applied Media Technology with a minimum grade of C and Instructor Approval) DESE 105435-3**

735 Collaborative Study in Engineering Technology (1/2 Unit)

Collaborative Study in Engineering Technology is a semester course designed to pull students from all areas of Industrial Technology to research and design, produce, market and sell a product. Emphasis shifts from the individual to a team concept. This course is highly recommended for students interested in business, marketing, and careers related to industrial technology including management, business, marketing, and entrepreneurship. **(Prerequisite: Instructor Approval and at least one of the following courses: Applied Metals Tech, Applied Woods Tech, Applied Media Tech or Intro to CADD) DESE 105406**

PHYSICAL EDUCATION AND HEALTH

801 General Physical Education (1 Unit)

General Physical Education is a year -long course that provides students with knowledge, skills and effective experiences in body development. The course will provide opportunities for obtaining and assessing their individual skills, developing personal health/fitness plans, skills and strategies in activities for lifelong participation and maintenance of wellness. (Students who receive credit may not repeat the class.) **DESE 086000-1**

805 Health Education (1/2 Unit)

Health, a semester course, is designed to meet the needs of today's students in typical areas of concern. This course includes units in communicable diseases, family relations, CPR, substance abuse, nutrition, fitness and other units pertaining to the development and care of a healthy body. **DESE 085300**

806 Hunter Safety and Conservation (1/2 Unit)

Hunter Safety and Conservation, a semester course, will emphasize the rules and regulations that govern conservation in Missouri. **(Prerequisite: General PE. If a student has already received his certification, he/she may not take this course a second time.) DESE 085312**

825 Adaptive Physical Education (1/2 Unit)

Adaptive Physical Education, a semester course, is designed for students with special needs in the area(s) of physical, mental, emotional, and/or social well-being. Individual adaptations will be made in health and skill related areas. Students will engage in the "Total Fitness" concept of living a balanced, healthy, safe lifestyle. **(Prerequisite: Department Approval) DESE 086010**

820 Beginning Weight Training, Fitness, and Conditioning (1/2 Unit)

Beginning Weight Training, Fitness, and Conditioning, a semester course, will involve the formation of a program composed of flexibility, strength and muscular endurance. Proper methods, theories, safety precautions, and correlating physical benefits will be stressed. A series of fitness tests will be administered. **(Prerequisite: General Physical Education, may repeat class with Instructor Approval) DESE 086025-1**

821 Advanced Weight Training, Fitness and Conditioning (1/2 Unit)

Advanced Weight Training, Fitness and Conditioning, a semester course, is an advanced weight training course that reinforces and stresses fundamental techniques taught in Beginning Weight Training. In addition, new weight training techniques will be introduced. **(Prerequisite: General Physical Education, Beginning Weight Training and sophomore standing, may repeat class with Instructor Approval) DESE 086025-2**

813 Lifetime Activities (1/2 Unit)

Lifetime Activities, a semester physical education course is a general course that provide students with knowledge, skills and effective sport experiences. The course will provide opportunities for obtaining and assessing individual skills, as well as skills and strategies in lifetime activities. Students will gain the knowledge for lifelong participation and maintenance of wellness. **(Prerequisite: General Physical Education and Sophomore standing, may repeat class with Instructor Approval) DESE 086030**

809 Team Sports (1/2 Unit)

Team Sports, a semester elective course, consists of units of activities to teach the individual the rules of team sports, build his/her physical strength and endurance, improve his/her balance, coordination, cardiovascular system and flexibility. Student will learn to be socially and emotionally accepted by his/her peers to the extent that they cooperate as a team. **(Prerequisite: General Physical Education and Sophomore Standing. Students who receive credit may not repeat the class without Instructor Approval) DESE 086035**

822 Cardiovascular Fitness Walking (1/2 Unit)

Cardiovascular Fitness Walking, a semester course, is designed to develop a lifelong commitment to fitness. The class will use the track, fitness trails, stairs, weight room and aerobic activities. Students will learn how to use fitness assessment equipment such as pedometers, heart rate monitor, body composition analyzers and scales. Students will walk an average of 8-10 miles per week at a 3.5 mph pace. **(Prerequisite: General Physical Education and Sophomore Standing. Note: A student who has received credit for this class may not repeat the class without Instructor Approval) DESE 086000-2**

807 Sports in American Society (1/2 Unit)

Sports in American Society, a semester course, will involve group discussion and research of all sports related issues as an integral part of this class. An emphasis is placed on the integration of baseball, boxing, gambling issues in baseball (1919), fee-agency, Title IX and the politics of the Olympics. Films are presented to illustrate specific eras in sports.

(Prerequisite: Junior or Senior Standing) DESE 086099

LEWIS AND CLARK CAREER CENTER

General information about student selections for Lewis and Clark Career Center

Enrollment is a competitive process at each sending school. Students who want to be considered for a technical program need to complete a Lewis & Clark application form and return it to their home school guidance office. Student information is compiled regarding grades, attendance, discipline patterns and aptitude testing. Students who have completed the entire application procedure will be rated. Enrollment is based on the cooperative decision of the enrollment team at each sending school. For priority consideration, students need to complete the application procedure including testing by the enrollment date set at each sending school yearly. Applications received after enrollment will be considered on a space available basis. All classes at Lewis & Clark Career Center meet for three periods each day and earn three units of credit per year. Articulation agreements are in place in certain programs for qualified students who complete their program. Students who complete the technical program with a minimum of 90% attendance and 75% average will receive a certificate of completion. An honors certificate will be awarded to students who maintain 95% attendance and 95% academic average. Students who attend Lewis & Clark Career Center follow the St. Charles District Code of Conduct and Grading Scale.

901 Auto Service Technology (3 Units)

2 year program; 3 units of credit per year

This course is open to individuals who have an interest in auto service trades in terms of a career goal. It is recommended that the student have credit in general shop, general metals course and basic computer skills. Automotive instruction at Lewis & Clark consists of a two-year program that provides the student with the basic theory and skills needed to service today's automobiles. Classroom instruction is followed by shop activities related to the lecture. Customer cars are repaired in the same manner as the professional shop under the instructor's supervision. Students will gain experience in shop management by writing work orders, ordering parts, and issuing supplies and tools used in the trade. The course is ASE (Automotive Service Excellence) certified in by NATEF (National Technician Education Foundation). Both NATEF and ASE are nationally recognized and provide certification for shops and technicians across the country. Areas of instruction include: engine repair, brakes, steering and suspension, heating/air conditioning, electrical/electronics and engine performance. Instructional time is (approximately) 50% class and 50% lab. **DESE 170302**

903 Auto Collision Repair (3 Units)

2 year program; 3 units of credit per year

This course is open to Juniors who have an interest in auto collision repair as a wage earning occupation. In the first year of the program, students will learn how to mig weld, shape fillers, plastic and fiberglass repair as well as painting procedures. In the second year, students will learn how to paint with basecoat/clear coat, align vehicle sheet metal, detailing, install glass, and repair unibodies. Mechanical and electrical services are also covered. The course is geared to prepare students for entry-level auto collision repair and to take the A.S.E. certification test. **DESE 170301**

905 Combination Welding (3 Units)

2 year program; 3 units of credit per year

Combination welding is open to students interested in welding and metal working as an occupation. Students are instructed in shop safety and proper procedures for each welding process. Oxy fuel cutting, arc, mig and tig welding, plasma cutting, and air arc cutting processes are taught in all four weld positions and on the five basic weld joints. Metallurgy, blueprint reading, reading a tape measure, metal fabricating techniques and weld symbols are included in the program. The lab is set up to simulate the welding industry. Students are evaluated by written tests and by testing their welds as specified by the American Welding Society code. Students interested in a career in welding should have good eye/hand coordination, mechanical aptitude, manual dexterity, freedom from asthma, allergies and physical disabilities which prevent bending, stooping, lifting and working in awkward positions. **DESE 172306**

907 Drafting and CAD (3 Units)

2 year program; 3 units of credit per year

Drafting and Design Technology is a two-year course designed for juniors in high school intending to enter drafting or the engineering fields. The program is structured so that upon completion, the student will be qualified to enter a wide variety of engineering graphic areas at an entry level. The student may also continue post-high school training in drafting if desired. In the first year, the program concentrates on general drafting skills with an emphasis on mechanical drafting areas including welding, sheet metal, gearing, castings, power transfer and introduction to CAD. The second year encompasses specific trade areas such as structural steel detailing, architectural drafting, process piping, electronics drafting and advanced computer aided drafting (CAD) skills. It is recommended that students have two units of mathematics with average or better grades. Algebra and Geometry would be helpful but good basic math skills are essential. **DESE 171300**

909 Building Trades (3 Units)

2 year program; 3 units of credit per year

This course is open to juniors who show an interest and aptitude in the field of construction as a wage earning occupation. Students are familiarized with entry-level skills for the major trades involved in residential construction such as carpentry, siding, interior trim, roofing, drywall hanging, concrete work and landscaping. Most of the program involves the actual building of a house in Lewis & Clark Career Center's own subdivision. Students not only gain experience in home construction, but also will learn about subdivision construction. Houses are sold upon completion. Students will gain experience in building both a single and a two-story dwelling. It is recommended that students have one year of industrial arts. **DESE 171099**

922 Brick and Stone Masonry (3 Units)

2 year program; 3 units of credit per year

This program is designed to prepare students for apprenticeship or entry-level jobs in masonry construction. Students will learn to lay brick and block in various bond patterns used in commercial and residential construction. Course will include construction techniques for building fireplaces and chimneys, arches, special wall openings, double wythe and reinforced masonry, wall anchoring systems, flashings and prevention of water penetration and masonry paving. Students will also gain knowledge of various types of stone construction and tuck-pointing. Units of study will cover safety practices and procedures; tools and equipment used in masonry construction; properties, sizes and used of clay and concrete masonry units; experience in laying brick, clock and stone in various bond patterns; reinforced masonry walls; masonry veneer construction; layout and construction of fireplaces and chimneys; mathematics for masonry and measuring systems; blueprint reading and construction plans. Students must be able to work at heights on scaffolds, lift and handle heavy materials, work in group situations as a team member, follow instructions and accomplish all tasks in an accurate and safe manner. **DESE 171004**

911 Heating, Ventilation and Air Conditioning (HVAC) (3 Units)

(Prerequisite: Algebra)

2 year program; 3 units of credit per year

This course will provide students with training in refrigeration, heating, ventilation, and air conditioning to qualify them for employment as an apprentice or helper assistant to an A/C mechanic in service and/or installation of equipment. The course will cover tool selection and use, tubing, piping, brazing, soldering and basics of compression refrigeration and air conditioning & heating systems. Electric circuits and components, troubleshooting, basic sheet metal, customer relations, and preparation for EPA exam will also be covered. Applicants should have a good mechanical aptitude and be able to understand both written and verbal instructions. Students should be in good physical condition and free from respiratory problems.

DESE 170100

924 Electrical Trades (3 Units)

2 year program; 3 units of credit per year

(Prerequisite: Algebra)

This course will teach students to identify, install, and troubleshoot electrical wiring and associated devices that are commonly used in both residential and commercial environments. Students will participate in the construction of a new house. The program includes switches, receptacles, lighting, low voltage communications wiring, service installations, and other wiring associated with residential electricity. Students will also learn fundamental commercial wiring including Start-Stop Stations and 3 phase motors, transformers, relay logic, and programmable logic controllers. Students must be physically fit and capable of working under adverse weather conditions including both very hot and freezing cold. We work during all types of weather on the school house. We work with real circuits, so the ability to abide by strict safety rules is extremely important. An aptitude for math in general and algebra in particular is required, as is an aptitude to read technical documents and drawings. **DESE 171002**

914 Computer Information Systems (3 Units)

1 year program; 3 units of credit per year

(Prerequisite: 10th grade reading, 8th grade or higher math, Keyboarding and Microcomputer Applications I)

This program is open to Juniors, Seniors and post-secondary students who have an interest in computer programming or database administration as a wage earning occupation or post-secondary degree. Students will learn beginning and intermediated business programming and business communication concepts. They will learn the basics of the C++ and Java programming languages and database administration and design skills. The students will complete a final project what will incorporate all facets of the class. Students who successfully complete this program will be able to develop business and other forms of software application to serve as an entry-level database administrator. Graduates may be employed by software development or consulting firms, or may continue on to a college level degree program. **DESE 034355**

913 Computer Maintenance & Networking (3 Units)

1 year program; 3 units of credit

(Prerequisite: Algebra I, Keyboard, and a basic understanding of microcomputer application software.)

This program is open to juniors, seniors and post-secondary students who have an interest in computer maintenance as a wage earning occupation. Students will learn to install, test and repair computer hardware, software and peripheral equipment. Extensive operational theory for computers and networks is incorporated in the course. Students are expected to become certified PC technicians before completing the program by taking the Comp TIA A+ certification exam. Students who successfully complete this program will be able to provide technical support for hardware, software and network systems. Graduates may be employed by computer retailers, service companies, consulting firms or businesses that maintain their own systems. **DESE 170104**

915 Health Occupations (3 Units)

1 year program; 3 units of credit per year

The Health Occupations course offers learning experiences for juniors or seniors in high school designed to create or further stimulate their interest in the many career opportunities available in the health field. This course is designed to be challenging. It is taught similarly to a junior college level course. The student will learn beginning skills and basic procedures needed for an entry-level job and a sound basis for continuing their education in the medical field. The first semester involves classroom theory, including a 1000 word terminology, basic anatomy and physiology, medical abbreviations and First Aid and CPR certifications, demonstrations and practice. During the second semester, students begin to draw upon previously acquired knowledge and basic skills by applying them to various health services through supervised clinical observations and experiences. Students must maintain a 75% average, 90% attendance, and pass a drug test to remain in the program and be placed in clinical rotations. Students are placed in clinical rotations Monday through Thursday and continue classroom work on Fridays. **DESE 070906-1**

916 Health Related Occupations (3 Units)

1 and 2 year program; 3 units of credit per year

The Health Related Occupations program at Lewis & Clark is either a one-or two-year course. This course is taught at a pace that allows repetition in order to successfully complete the course requirements. The purpose of the program is for the student to learn and develop beginning skills and understanding in the health related fields. These skills include hand washing, isolation techniques, bed making, bathing a patient, taking vital signs, oral hygiene, operating equipment such as wheelchairs, stretchers, and hydraulic lifts. Other areas of study included in the program are 1/000 word medical terminology, abbreviations, anatomy, nutrition, CPR, first aid, safety, body mechanics, work ethics, communication skills, and job readiness skills. Students who meet the criteria will have the opportunity to earn the Certified Nurse Assistant (CAN) certification. During the first semester, students are in the classroom to learn theory, observe demonstrations and practice. Students must maintain a 75% average, 90% attendance, and pass a drug test in order to be placed on rotation second semester and remain in the program. During second semester the students are placed at rotation sites such as nursing, ambulatory care, radiology, physical therapy, materials management, central sterile; dentist office, and animal care facilities. Students are placed at rotation sites Monday-Thursday during the second semester with classroom reinforcement on Friday. Rotation sites are selected to meet the interest and needs of the student when available. Students who are chosen to become an aide/assistant in any of the other specified areas will receive appropriate classroom instruction until they are prepared to work in a community setting. **DESE 070906-2**

919 Power Equipment Technology (3 Units)

1 and 2 year program; 3 units of credit per year

This program prepares juniors and/or seniors to diagnose and repair two-and four-cycle engines on such equipment as lawn mowers, chainsaws, roto tillers, edgers and trimmers. Power equipment instruction ranges from home-use equipment to commercial equipment. Students will learn to adjust, clean, lubricate and when necessary replace worn or defective parts such as spark plugs, ignition points, valves and carburetors. Other skills taught include wheel alignment, deck repair, blade balancing, blade and chain sharpening, battery testing and electrical repair. Troubleshooting and problem solving on all types of equipment are stressed. Good reading skills are required, as students will need to be able to refer to service manuals for detailed directions. **DESE 173100**

918 Applied Retail and Business Skills (3 Units)

1 and 2 year program; 3 units of credit per year

This course is designed for juniors or seniors with special needs who have an interest in the supermarket or retail industry. This is an active, hands-on, multimedia approach that emphasizes instructional strategies that are successful with special needs populations. The program has three phases; classroom instruction, community-based transition, and internship experience. The classroom instruction includes lessons on self-awareness, social skills, communication skills, human resource skills, and employability skills. The training areas covered in both classroom and on-site experiences include; safety, cashier, produce, grocery, dairy, frozen foods, deli, bakers, and other retail skills. Skills learned in the classroom are reinforced through the community-based transition phase of the program. During this time, the student job shadows at participating stores. A four-week internship concludes the program and provides students with a chance for continued employment. A desire and potential for competitive employment are necessary for success in this program. **DESE 096833**

945 Early Childhood Careers

1 or 2 year program; 3 units of credit per year (Prerequisite: prior Child Development course recommended)

This course will prepare students for employment in early childhood education and related services while providing the foundations for study in higher education that lead to early childhood education and other child-related careers. Students will evaluate leadership, citizenship, and teamwork skills required for success in early childhood industry. During the program students will analyze career opportunities and identify personal traits needed within early childhood careers. They will examine types of early childhood programs, be able to describe areas of child development, and demonstrate a safe and healthy learning environment. They will practice appropriate child guidance and behavior management techniques. The students will be taught CPR techniques for infants and small children, other basic first-aid methods, nutritional planning, and proper meal preparation in the childcare setting. Students will meet content knowledge requirements for the CDA (Child Development Associate) credential. Students will have the opportunity to earn a CDA by completing the full two years of the program. Students must have a TB test and a criminal background check to be placed on rotations the second half. This course will prepare students for employment in early childhood education and related services. **DESE 096831**