

# Dallas Center-Grimes High School



## Course Description Book 2025-26

# Table of Contents

<b>Graduation Requirements by Department</b> .....	<b>2</b>
English/Language Arts.....	2
Math.....	2
Science.....	3
Social Studies.....	4
ADDITIONAL REQUIREMENTS.....	4
<b>GRADUATION INFORMATION</b> .....	<b>5</b>
<b>ACADEMIC OPPORTUNITIES</b> .....	<b>6</b>
ADVANCED PLACEMENT COURSES.....	6
CONCURRENT ENROLLMENT COURSES.....	6
DMACC CAREER ADVANTAGE.....	7
CENTRAL CAMPUS/CENTRAL ACADEMY CLASSES.....	7
WAUKEE APEX.....	7
DMACC Online Options.....	8
<b>ACADEMIC INFORMATION</b> .....	<b>10</b>
<b>POSTSECONDARY PLANNING</b> .....	<b>11</b>
Course Requirements for Admission to Iowa's Regents Universities.....	11
Sports Eligibility for College.....	12
<b>NON-DISCRIMINATION STATEMENT</b> .....	<b>12</b>
<b>COURSE DESCRIPTIONS</b> .....	<b>13</b>
LANGUAGE ARTS COURSE DESCRIPTIONS.....	13
MATHEMATICS COURSE DESCRIPTIONS.....	18
SCIENCE COURSE DESCRIPTIONS.....	20
SOCIAL STUDIES COURSE DESCRIPTIONS.....	23
WORLD LANGUAGE COURSE DESCRIPTIONS.....	26
AGRICULTURE EDUCATION COURSE DESCRIPTIONS.....	28
ART COURSE DESCRIPTIONS.....	30
BUSINESS EDUCATION COURSE DESCRIPTIONS.....	32
FAMILY AND CONSUMER SCIENCE COURSE DESCRIPTION.....	34
INDUSTRIAL TECHNOLOGY COURSE DESCRIPTIONS.....	36
COMPUTER SCIENCE COURSE DESCRIPTIONS.....	37
MUSIC COURSE DESCRIPTIONS.....	38
PHYSICAL EDUCATION COURSE DESCRIPTION.....	40
HEALTH COURSE DESCRIPTIONS.....	41
MISCELLANEOUS COURSE DESCRIPTIONS.....	42

# Graduation Requirements by Department

## English/Language Arts

8 credits required

	Course Options
<b>Year 1</b>	English I (2 credits)
<b>Year 2</b>	English II or Advanced English II (2 credits)
<b>Year 3</b>	English III or Advanced English III (2 credits)
<b>Year 4</b>	Speech
<b>Additional Elective Choices</b> (at least one credit required for graduation)	English IV (1 credit) AP Literature and Composition (2 credits) AP Language and Composition (2 credits) Drama (1 credit) Drama II (1 credit) Novels (1 credit) Creative Writing (1 credit) Journalism (2 credits) Yearbook (2 credits)

## Math

6 credits required

	Course Options
<b>Year 1</b>	Algebra I (2 credits)
<b>Year 2</b>	Geometry (2 credits)
<b>Year 3</b>	Algebra II (2 credits)
<b>Additional Elective Choices</b>	Trigonometry/Pre-Calculus (2 credit) Calculus (2 credits) Statistics (1 credit) AP Statistics (2 credits) AP Calculus AB (2 credits) AP Calculus BC (2 credits)

## Science

6 credits required

	Class of 2025 and 2026	Class of 2027 and beyond
<b>Year 1</b>	Chemistry I (1 credit) Physics I (1 credit)	Physical Science (2 credits)
<b>Year 2</b>	Biology (2 credits) or AP Biology (2 credits)	Biology (2 credits) or AP Biology (2 credits)
<b>Year 3</b>	Earth & Environmental Science (1 credit)	Earth & Environmental Science (1 credit)
<b>Additional Elective Choices</b> (at least one credit required for graduation)	Anatomy and Physiology (2 credits) Botany I (1 credit) Botany II (1 credit) Chemistry (1 credit) Physics (1 credit) AP Chemistry (2 credits) AP Environmental Science (2 credits) AP Biology (2 credits) AP Physics I (2 credits) Intro. to Engineering Design (2 credits) Principles of Engineering (2 credits)	Anatomy and Physiology (2 credits) Botany I (1 credit) Botany II (1 credit) Chemistry (1 credit) Physics (1 credit) AP Chemistry (2 credits) AP Environmental Science (2 credits) AP Biology (2 credits) AP Physics I (2 credits)

*\* If planning to attend a 4 year college/university it is recommended to take two full lab courses for 2 credits each (Example: Biology, Chemistry, and Physics)*

## Social Studies

7 credits required

(Must take minimum one course from each of the following groups unless otherwise indicated)

Category	Course Options
World History and Geography	West. Civ: Age of Exploration to Today (1 credit) and World Geography (1 credit)  <b>OR</b>  AP World History (2 credits)
Behavioral Science	Sociology (1 credit) Psychology (1 credit)
US History	US History (2 credits) AP US History (2 credits)
Economics	Economics (1 credit)
Civics	American Government (1 credit) AP US Gov & Politics (2 credits)
<b>Additional Elective Choice</b>	Current Issues (1 credit)

### ADDITIONAL REQUIREMENTS

- Physical Education 1 credit per year
- Health 1 credit
- Financial Literacy 1 credit

**Note**

All students are required to take a total of three classes each term.

# GRADUATION INFORMATION

## **Early Graduation**

Students completing all graduation requirements by the end of their 2nd or 3rd term of senior year may opt to graduate early. They will not attend classes after completing all requirements and will be ineligible for extracurricular activities during this semester and the summer. They will be allowed to attend Prom and Commencement with all honors. Diplomas will not be available for early graduates until the spring ceremonies. Students interested in learning more must speak to their counselor.

## **Graduation Honors**

On completion of the course of study in the senior year of high school, the administration shall award:

**High Honors**                      Weighted GPA of 4.00 and above

**Honors**                              Weighted GPA of 3.90 - 3.99

\*\*The students in each of the Honors groups shall receive a cord to wear at Commencement.

\*\*High Honors and Honors are based on the 7th Semester GPA.

## **Honors Diploma**

Students meeting the following requirements will be recognized at commencement as graduating with honors, as well as have an honors designation on their diploma.

The requirements are:

- Minimum of 54 Total Credits
- 8 Language Arts Credits (to include 2 semesters of AP Composition or AP Literature)
- 8 Science Credits (to include 2 credits advanced or AP science classes)
- 8 Math Credits (to include 2 credits advanced or AP coursework)
- 8 Social Studies Credits (to include 2 credits of AP coursework)
- 3 consecutive years of the same world language
- 1 credit Fine Arts (Art or Music)
- Minimum of 3.5 GPA

(This will not exist after the graduating class of 2027. As we continue to evaluate our programs and opportunities, this Honor Diploma has created restrictions on student opportunities. This recognition does not have an impact for students who are attending a post secondary placement on admission or scholarships. This is a DCG honor and recognition only, and is represented by a Honors sticker on their DCG Diploma. Students GPA is still connected to the Honors and High Honors for Graduating with Honors from DCG. The goal of eliminating this is to free up students to further pursue their interest areas and take the opportunities we have with DMACC, AP, and other Advanced courses).

## **Participation in Commencement Exercises**

Students who wish to participate in the commencement exercise must have completed all requirements as set forth by the board of directors of the Dallas Center-Grimes School District and be in good standing with the school.

# ACADEMIC OPPORTUNITIES

## ADVANCED PLACEMENT COURSES

Students at Dallas Center-Grimes may enroll in Advanced Placement classes at the high school. Each AP course's curriculum is equivalent to a first year college course. These accelerated courses require students to meet class prerequisites, teacher approval and parental approval. The student is encouraged to take the course's AP test in May (at their expense). Students who earn a score of 3, 4, or 5 may earn college credit (dependent upon issuing college).

The following AP course subjects are available at Dallas Center-Grimes:

AP US Gov & Politics	AP Biology	AP Calculus AB
AP Statistics	AP Chemistry	AP Calculus BC
AP Language and Composition	AP U.S. History	AP Literature and Composition
AP World History	AP Physics I	AP Environmental Science

## CONCURRENT ENROLLMENT COURSES

Students at Dallas Center-Grimes may enroll in Concurrent Enrollment Courses at the high school. These courses are taught by DC-G teachers who are approved by DMACC to teach college level courses in the building. Credit earned in these courses are applied to students' DC-G high school transcript and a DMACC transcript.

### DC-G Course

<b>core</b>	AP Language and Comp.
<b>core</b>	AP Language and Comp.
<b>core</b>	AP Literature and Comp.
<b>core</b>	AP US Gov & Politics
<b>core</b>	AP US History
<b>core</b>	AP US History
<b>core</b>	AP World History
<b>core</b>	AP World History
<b>core</b>	AP Calculus AB
<b>core</b>	College Spanish IV
<b>non-core</b>	Agronomy and Soil Sciences
<b>non-core</b>	Survey of Animal Industry
<b>non-core</b>	Art Appreciation
<b>non-core</b>	Ceramics II
<b>non-core</b>	Painting II
<b>non-core</b>	Drawing II
<b>non-core</b>	School to Work Class (Term 1)
<b>non-core</b>	School to Work (Term 2)
<b>non-core</b>	School to Work (Spring Semester)
<b>non-core</b>	Entrepreneurship
<b>non-core</b>	Professional Sales Marketing
<b>non-core</b>	Advanced Coding
<b>non-core</b>	Accounting

### DMACC Equivalent

ENG 105 - Composition I (3 credits)
ENG 106 - Composition II (3 credits)
LIT 101 - Intro to Literature (3 credits)
POL 111 - American National Government (3 credits)
HIS151 - US History to 1877 (3 credits)
HIS152 - US History since 1877 (3 credits)
HIS 110 - Western Civ: Ancient to Early Modern (3 credits)
HIS 111 - Western Civ: Early Modern to Present (3 credits)
MAT 211- Calculus I (5 credits)
FLS 242- Intermediate Spanish II (4 credits)
AGA 157 - Soil Fertility (1 credit)
AGS 113 - Survey of Animal Industry (2 credits)
ART 101 - Art Appreciation (3 credits)
ART 173 - Ceramics (3 credits)
ART 143 - Painting (3 credits)
ART 133 - Drawing (3 credits)
WBL110 - Employability Skills (2 credits)
WBL150 - Job Shadowing (1 credit)
ADM936 - Occupational Experience (3 credits)
BUS 148- Small Business Management (3 credits)
MKT 140 - Selling (3 credits)
CIS 125 - Introduction to Programming and Logic (3 credits)
ACC104 - Fundamentals of Bookkeeping (3 credits)

## DMACC CAREER ADVANTAGE

This is a two-semester program in a number of vocational areas. The classes would involve the student spending half of the day at a DMACC campus and half a day at DC-G High School. The program is available to juniors and seniors with a key interest in the following areas as a career. The student would be responsible for transportation and the high school would pay the cost for all classes.

Automotive Technology	Criminal Justice	Human Services	Welding
Automotive Collision	Culinary Arts	Liberal Arts Transfer	
Applied Engineering	Diesel Technology	Machine Operations (Tool and Die)	
Business	EMT	Patient Access Specialist	
CAD Technology	Fashions	Teaching	
Computer Programming	Health Occupations	Visual Communications	

See the Counselor for information or visit <https://www.dmacc.edu/ankeney/Pages/ankeneycareeracademy.aspx>  
Commitment to take college courses must be articulated at time of registration.

## CENTRAL CAMPUS/CENTRAL ACADEMY CLASSES

DC- G has a sharing agreement with Des Moines Independent Community Schools. Des Moines offers over 30 vocational and advanced classes at their central campus. Juniors and seniors may enroll in these classes on a half-day basis. A wide variety of advanced curriculum courses are offered at Central Academy, which includes AP and advanced level courses. Three credit classes are recommended to justify the periods used to travel to Central Campus. In order to be eligible to take these advanced classes, students must take all the courses DC-G offers in that area first. In addition, students must fulfil core requirements at DC-G to be eligible to either take or continue with these courses. Transportation to Central Campus (1600 Grand) is the responsibility of the student. Scheduling for graduation requirements take priority. See Counselor for classes offered and deadlines for registration.

### Areas of study at Central Campus:

Business	Human Services
Informational Technology and Arts	Skilled Trades
Engineering	Transportation
Health Sciences	

More information: <http://www.dmschools.org/academics/curriculum/career-technology-education/central-campus/>.

## WAUKEE APEX

Through a collaboration between education, business, and the community, Waukee Aspiring Professional Experience (APEX) develops highly skilled, adaptable, global innovators and leaders. Waukee APEX draws on the expertise of business partners to bring real-world experience to high school. Through passion-based learning, authentic projects, and experiences, students add value to business partners while exploring career possibilities identified by economic trends within our metro area and state. To learn more, visit their website at <https://apex.waukeeschools.org>

Students interested in the program need to:

- Believe in productive collaboration between education, business and community.
- Commit to adding value to partnering businesses.
- Be open to new ideas and possibilities.
- Be a junior or senior in high school.
- Desire to work with other students on problem-based, real-world projects.
- Demonstrate business ethics and dress professionally as determined by the field of study.
- Spend 2.5 hours a day away from your high school. APEX courses take place in the morning or afternoon during fall or spring terms.
- Provide own transportation.



## DMACC Online Options

Juniors and Seniors will have the opportunity to take online classes through DMACC. Students will receive 2 credits for each DMACC online course that they will take, since each course is a semester long (2 terms). If students are interested in taking any of these courses, they need to contact their counselor to learn more.

ACC111-Intro to Accounting	BUS278-Employment Law	ECE103-Intro to Early Child. Ed.
ACC131-Principles of Accounting I	CHM105-Survey of Chemistry	ECE133-Child, Health, Safety and Nutrition
ACC132-Principles of Accounting II	CHM122-Intro to General Chemistry	ECE151-Individualizing for Children
ACC161-Payroll Accounting	CIS125-Intro to Programming Logic	ECE158-Early Child. Curriculum I
ACC165-Payroll Cert. Review	CIS152-Data Structures	ECE159-Early Child. Curriculum II
ACC202-Accounting Cycle	CIS161-C++	ECE215-Home, School, & Comm. Relations
ACC252-Gov't and Non-profit Accounting	CIS164-Advanced C++	ECE221-Infant/Toddler Care and Ed.
ACC265-Income Tax Accounting	CIS169-C#	ECN120-Princ. Of Macroeconomics
ACC314-Quickbooks Accounting	CIS171-Java	ECN130-Princ. Of Microeconomics
ADM105-Intro to Keyboarding	CIS175-Java II	EDU245-Exceptional Learner
ADM147-Cust. Service Health Care	CIS189-Python	EDU252-Comm. And Collab Partnerships
ADM154-Business Communication	CIS289-Python II	EDU253-Behavior Management
AGB440-Agri. Niche Marketing	CIS303-Intro to Database	EDU255-Tech. In the Classroom
AGC314-Leadership in Agriculture	CIS332-Database and SQL	ENG105-Composition I
ANT105-Cultural Anthropology	CIS338-SQL/Oracle	ENG106-Composition II
ANT202-Human Origins	COM146-Gender, Sexuality, and Media	ENG108-Comp. II: Technical Writing
ART101-Art Appreciation	CRJ100-Intro to Criminal Justice	ENG145-Strategies for Comp.
ART190-History of Photography	CRJ101-Ethics in Criminal Justice	ENG221-Creative Writing
ART204-Art History II	CRJ107-Survey Crim. Justice Ag.	ENV103-Sustainable Living
ASM165-Healthy Aging	CRJ109-Theories of Interviewing	ENV115-Environmental Science
ASM180-Cultural Diversity	CRJ141-Criminal Investigation	ENV116-Env. Science w/ Lab
ASM200-Depression, Death and Grieving	CRJ178-E-Crime Invest. Methods	FIN101-Principles of Banking
ASM279-Health Care Human Res.	CRJ179-White Collar Crime	FIN121-Personal Finance
ASM280-Health Care Delivery Sys.	CRJ200-Criminology	FIN180-Intro to Investments
ASM282-Aging Services	CRJ201-Juvenile Delinquency	GEO111-Intro to Geography
ASM283-Aging Policies and Gov. Programs	CRJ220-Comm-Based Corrections	GEO124-Reg. Geog. of the NonWest World
BCA110-Introduction to Word	CRJ237-Crim. and Const. Law	HIS110-West Civ: Ancient to Early Mod.
BCA121-Introduction to Excel	CRJ245-Scientific Investigation	HIS111-West. Civ: Early Mod to Present
BCA212-Intro Com. Business Appl.	CRJ293-Crim. Just. Report Writing	HIS151-US Hist. to 1877
BIO104-Introduction Biology w/lab	CRJ294-CJ Comm. Strategies	HIS152-US Hist. since 1877
BIO145-Ecology of Iowa	CRJ301-Intro to Homeland Security	HIS201-Iowa History
BIO151-Nutrition	CRJ302-Transp. & Border Security	HIS257-African-American History
BUS102-Introduction to Business	CRJ303-Intel Analysis & Sec. Mgmt	HIS274-Women's History: US
BUS112-Business Math	CRJ305-Intro to Cyber Terrorism	HSC114-Medical Terminology
BUS131-Small Business Mgmt. Strategies	CRJ325-Intro to Emerg. Mgmt	HSC128-Anatomy & Phys for Allied Sciences
BUS138-Small Business Marketing	CRJ326-Emergency Planning	HSC300-Med Term for Health Sciences
BUS141-Small Business Start-Up	CRJ327-Exercise Design and Eval.	HSV109-Intro to Human Services
BUS148-Small Business Mgmt.	CRJ328-Disaster Resp. & Recovery	
BUS185-Business Law I	CRJ329-Mitigation	
BUS186-Business Law II	CSC116-Information Computing	
BUS220-Intro Int'l Business	DAT201-Data Science I	
BUS260-Introduction to Insurance	DAT202-Data Science II	
	DRA101-Intro to Theatre	
	DRA105-Budgeting for Artists	

HSV135-Women's Issues  
 HSV220-Intro to Counseling Theo.  
 HSV255-Addictive Disease Concepts  
 HUM116-Encounters in Humanities  
 HUM120-Intro to Film  
 HUM121-America in the Movies  
 INF110-Fundamental Informatics  
 JOU110-Intro to Mass Media  
 JOU113-Gender, Sexuality and Media  
 JOU114-Diversity and the Media  
 JOU115-Intro to Journalism  
 JOU165-Principles of Advertising  
 LIT101-Intro to Literature  
 LIT105-Children's Literature  
 LIT111-Amer. Lit. since Mid-1800  
 LIT130-African-American Lit.  
 LIT150-World Literature I  
 LIT166-Science Fiction  
 LIT185-Contemporary Lit.  
 LIT188-Detective Fiction  
 LIT190-Women's Writers  
 LIT193-Humor in Literature  
 LIT209-Lit. Film Adaptation  
 MAT110-Math for Lib. Arts  
 MAT114-Elem. Educators Math I  
 MAT116-Elem. Educators Math II  
 MAT121-College Algebra  
 MAT129-Precalculus  
 MAT130-Trigonometry  
 MAT141-Finite Math  
 MAT157-Statistics  
 MAT162-Prin. of Bus. Stats.  
 MAT164-Calc for Bus/Soc. Sci.  
 MAT211-Calculus I  
 MAT217-Calculus II  
 MAT772-Applied Math  
 MAT773-Applied Math II  
 MGT101-Principles of Mgmt.  
 MGT130-Principles of Supervision  
 MGT145-Human Relations in Mgmt  
 MGT170-Human Resources Mgmt  
 MGT174-Training and Empl. Dev.  
 MGT266-Prin. of Supply Chain Mgmt  
 MKT110-Principles of Marketing  
 MKT121-Digital Marketing  
 MKT131-Social Media Marketing  
 MKT135-Content Marketing  
 MKT140-Selling  
 MKT150-Principles of Advertising  
 MUS100-Music Appreciation  
 MUS202-World Music  
 NET179-Digital Forensic Analysis I  
 NET402-Linux Network Admin.  
 PEC110-Coaching Ethics, Tech and Theory  
 PEC115-Athletic Dev. and Human Growth  
 PEC122-Intro Anat and Phys for Coaching  
 PEH102-Health  
 PEH110-Personal Wellness  
 PEH125-Prin. Personal Training II  
 PEH178-Sports Diversity  
 PEH190-Sports Nutrition  
 PEH255-Princ. Sports Management  
 PEH262-Wellness Prog/Plan/Org  
 PET110-Intro to Athletic Training  
 PHI101-Intro to Philosophy  
 PHI105-Intro to Ethics  
 PHI111-Basic Reasoning  
 PHR185-Pharmacology  
 PHS152-Astronomy  
 PHY106-Survey of Physics  
 POL111-American Nat'l Gov.  
 POL112-Amer. State & Local Gov.  
 POL121-International Relations  
 POL129-Politics of Terrorism  
 POL171-Intro to Public Admin  
 PSY102-Human and Work Relat.  
 PSY111-Intro to Psychology  
 PSY121-Developmental Psych.  
 PSY140-Exploring Mental Health  
 PSY172-Stress and Stress Mgmt.  
 PSY241-Abnormal Psychology  
 PSY251-Social Psychology  
 PSY261-Human Sexuality  
 PSY281-Educational Psychology  
 PSY291-Prin. of Behavioral Mod.  
 REL101-Survey of World Religions  
 SDV115-Study Strategies  
 SDV171-Library Instruction  
 SOC110-Intro to Sociology  
 SOC115-Social Problems  
 SOC110-Marriage and Family  
 SOC200-Minority Group Relations  
 SPC101-Fund. of Oral Comm.  
 SPC120-Intercultural Comm.  
 SPC122-Interpersonal Comm.  
 WDV101-Intro to HTML and CSS

# ACADEMIC INFORMATION

## **Standard Grading Scale:**

A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	59 and below

## **Weighted Grading Scale: (Students who pass the AP COURSE)**

- One point will be added to above standard GPA grading scale.
  - Example: A- = 3.67 + 1 = weighted GPA 4.67

## **Retaking Classes**

Students may repeat any course that has been passed for a higher grade under the following conditions:

- The course must be retaken within a year of the completion of the initial course.
- If a higher-level course has been taken, the option of repeating a lower course is no longer available.
  - i.e. cannot repeat Algebra I after Geometry.
- The course may be repeated once.
- Enrollment will be on a space available basis.
- The original course and grade will show on the transcript, but the higher of the two grades will be used to determine GPA.
- Credit will only be issued one time.

## **Summer School**

College classes can be taken, at student's cost, during the summer with pre-approval. College classes cannot replace a required course for high school credit. College class grades will be recorded as given by the college and will be calculated into the student's GPA.

## **Independent Study by Students**

Students may elect to accelerate their course of study and elect to take classes at DC-G on an independent basis under the following guidelines:

1. The student must have administrative and curricular areas staff approval before permission will be granted.
2. Classes cannot be at a lower proficiency level than already acquired by the student.
3. Parents will be communicated with when independent studies are scheduled.
4. Students who wish to accelerate normal grade placement by external independent study are subject to the same guidelines as above.

## **Credits**

Each academic course passed that meets for a full block every day will be given recognition of one credit per term. Classes that meet for half of a block each day will be given half of a credit each term. Classes that meet every other day for the duration of a term will also receive half of a credit for that specific term.

**All above policies are subject for review for each school year. Approved board policy and handbook supersedes anything in this description book. Courses offerings are subject to enrollment criteria.**

# POSTSECONDARY PLANNING

## Course Requirements for Admission to Iowa's Regents Universities

### University of Northern Iowa

ENGLISH	4 years, including one year of composition; also may include one year of speech, communications, or journalism.
MATH	3 years, including algebra, geometry, and advanced algebra.
SCIENCE	3 years, including courses in general science, biology, chemistry, earth science, or physics: laboratory experience highly recommended.
SOCIAL STUDIES	3 years, including courses in anthropology, economics, geography, government, history, psychology, or sociology.
FOREIGN LANGUAGE	Foreign language courses are not required for admission. Two years are needed for University graduation requirements with C- or above.
ELECTIVES	2 years of additional courses from the required subject areas, foreign language, or fine arts.

### The University of Iowa

ENGLISH	4 years with emphasis on the analysis and interpretation of composition, literature, speech.
MATH	3 years, including two years of Algebra and one year of Geometry for admission to College of Liberal Arts, 4 years for admissions to College of Engineering.
SCIENCE	3 years, including courses in biology, chemistry, environmental science and physics for admission to College of Liberal Arts and College of Engineering. 3 years, including one year each of Biology, Chemistry, and Physics for the College of Nursing.
SOCIAL STUDIES	3 years, including courses in U.S. and world history for admission to College of Liberal Arts. 2 years, including courses in U.S. and world history for admission to College of Engineering.
FOREIGN LANGUAGE	2 years of one foreign language for admission. For many degrees, the 4 <sup>th</sup> year of proficiency is required for graduation. Nursing—minimum second-level proficiency in one world language (typically 4 years).
ELECTIVES	Not required

### Iowa State University

ENGLISH	4 years, with emphasis on writing, speaking, as well as an understanding and appreciation of literature.
MATH	3 years, including two years of algebra and one year of Geometry.
SCIENCE	3 years, including at least two years of courses which emphasize the following: biology, chemistry, or physics.
SOCIAL STUDIES	3 years for admission to College of Liberal Arts and Sciences. 2 years for admission to Colleges of Engineering, Agriculture and Life Science,, Business, Design, and Human Sciences.
FOREIGN LANGUAGE	2 years of one foreign language for admission to Colleges of Liberal Arts & Sciences and Engineering.
ELECTIVES	Not required.

\*Some requirements may differ for programs within any university.

## Sports Eligibility for College

Any student interested in participating in sports at a NCAA Division I or Division II college must meet core course and credit requirements through the NCAA Clearinghouse. Only classes taken in grades 9-12 are eligible for consideration. Courses approved by the clearinghouse for DC-G are available from the clearinghouse or high school counselor. An official application to the clearinghouse is made at the end of your junior year. Other college programs (NAIA, etc.) may also have special requirements for eligibility.

**NCAA ELIGIBILITY REQUIREMENTS** (more details can be acquired at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net))

### DIVISION I

#### **16 Core Courses**

4 Years English  
3 Years Math  
2 years Science (1 year lab)  
1 year additional English, Math, Science  
2 years Social sciences  
4 years additional from above,  
Including foreign language

### DIVISION II

#### **16 Core Courses**

3 Years English  
2 Years Math (Above Alg 1)  
2 years Science (1 year lab)  
3 years additional English, Math, Science  
2 years Social Sciences  
4 years additional from above  
Plus foreign language

**Division I** has a minimum core grade point average of 2.3.

**Division II** has a sliding scale with minimum core grade point of 2.2.

**NAIA ELIGIBILITY REQUIREMENTS** (more details can be acquired at <https://www.ncsasports.org/naia-eligibility-center>)

1. You must meet one of the following criteria:

- A. After junior year, have a 3.3 GPA with no qualifying test score, or a 3.0 GPA with a qualifying test score.
- B. After 7 semesters, have a 2.8 GPA with no qualifying test score, or a 2.5 GPA with a qualifying test score.
- C. After graduating, have a 2.3 GPA with no qualifying test score or a 2.0 GPA, rank in the top 50% of your class, and have a qualifying test score.

The ACT/SAT test must be taken on a national testing date and certified to the institution prior to the beginning of the term in which the student initially participates.

## NON-DISCRIMINATION STATEMENT

Students, parents, employees and others doing business with or performing services for the Dallas Center-Grimes Community School District are hereby notified that this school district does not discriminate on the basis of race, color, creed, religion, gender, national origin, sexual orientation, gender identity, disability, age, (for employment), marital status (for programs), or socioeconomic status (for programs) in admission or access to, or treatment in, its programs and activities or hiring and employment practices. Any person having inquiries concerning the school district's compliance with the regulations implementing Title VI, Title VII, Title IX, the Americans with Disabilities Act (ADA), 504 or Iowa Code 280.3 is directed to contact: Angela Dvorak, 1414 Walnut St. Suite 200, Dallas Center, Iowa 50063, telephone: 515-992-3866, who has been designated by the school district to coordinate the school district's efforts to comply with the regulations implementing Title VI, Title VII, Title IX, the ADA, 504 and Iowa Code 280.3.

# COURSE DESCRIPTIONS

*Courses are listed alphabetically under each section, not by suggested progression.*

**College Core/Non-Core:** The NCAA and many colleges look mainly at core classes for admissions, GPA and requirements. College Core consists of English, Math, Science, Social Studies and Foreign Language classes at a particular level. All of our classes in these areas that meet these requirements will have a code of college core. All other classes in these areas will be coded non-college core.

## ENGLISH PREREQUISITES

In order to sign up and take certain English courses, the following prerequisites **must be met:**

English Course	Prerequisites	
English I	None	
English II	✓ English I	
Advanced English II	✓ English I	
English III	✓ English II	
Advanced English III	✓ English II or Advanced English II	
AP English Literature and Composition	✓ English II or Advanced English II	✓ Grade Level: 11-12
AP English Language and Composition	✓ English III or Advanced English III	✓ Grade Level: 12
English IV	✓ English III or Advanced English III	
Novels, Creativing Writing, Drama, Journalism, Intro to Yearbook	None	
Drama II	Drama I	
Yearbook Lab	Intro to Yearbook	

## LANGUAGE ARTS COURSE DESCRIPTIONS

### **ADVANCED ENGLISH II: 7221, 7222**

Prerequisite: English I (COLLEGE CORE)

GRADE 10                      2 CREDITS                      2 TERMS

Students in this course will explore American literature more widely and deeply than those in Standard English II classes, including more challenging and/or complete print and non-print texts. The Advanced English course fosters intellectual curiosity by encouraging students to generate thought-provoking questions and topics and to research diverse sources.

Students will build on their literature, nonfiction, composition, grammar, vocabulary, research and speaking skills. Reading and writing units focus on critical thinking and literary analysis in addition to reading comprehension, literary techniques, and literary elements. Students will refine their composition skills through the study of usage, mechanics, and documentation (MLA format).

**ADVANCED ENGLISH III: 7331, 7332**

Prerequisite: English II (COLLEGE CORE)

GRADE 11                      2 CREDITS                      2 TERMS

Students in this course will explore world literature more widely and deeply than those in Standard English III classes, including more challenging and/or complete print and non-print texts. The Advanced English course fosters intellectual curiosity by encouraging students to generate thought-provoking questions and topics and to research diverse sources. Students will build on their literature, nonfiction, composition, grammar, vocabulary, and research skills. Reading and writing units focus on critical thinking and literary analysis in addition to reading comprehension, literary techniques, and literary elements. Students will refine their composition skills through the study of usage, mechanics, and documentation (MLA format). This course will prepare a college-bound student well for further explorations in subsequent classes such as English IV, AP Literature and/or AP Composition.

**AP LANGUAGE & COMPOSITION: 13619, 13620**

Prerequisite: English III; or teacher approval (COLLEGE CORE)

GRADE 12                      2 CREDITS                      2 TERMS

AP English Language & Composition I, II is a two-term course that prepares seniors for college writing. In AP English Language & Composition I students will learn to read, annotate, evaluate, and discuss college-level readings and published texts. All reading in this course is non-fiction. Students will analyze the rhetorical choices made by authors and the outcomes of those choices. Students will then construct and revise a series of written pieces, primarily persuasive, including a rhetorical analysis essay. Writing will be practiced as a recursive process; reading will be an active part of the writing process. In AP English Language & Composition II students will continue to develop the skills taught in AP English/Language & Composition I with a focus on analyzing rhetorical and argumentative techniques. Students will continue to analyze, synthesize, and evaluate texts. Effective academic research is also emphasized. Students will write and revise multiple essays, including a research-based argument. Academic integrity is a key expectation of this course and students will be expected to integrate standard college-level documentation practices. Vocabulary, grammar, and syntax will also be a focus of the course to help students compose clear academic writings. These two terms of senior composition should provide the college bound student with a thorough background for successful post-secondary study. This class prepares students for the AP exam and those scoring a 3, 4 or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass the course will receive a weighting of one point on their GPA. **This class is offered as a concurrent credit class with DMACC's English 105 and English 106. A student who finishes this course could receive 6 DMACC credits. Per DMACC rule, students must receive a C- or higher in term 1 (ENG105) in order to continue on to term 2 (ENG106).**

**AP LITERATURE AND COMPOSITION: 16901, 16902**

Prerequisite English II (COLLEGE CORE)

GRADES 11-12                      2 CREDITS                      2 TERMS

AP Literature & Composition is an English elective offered to juniors and seniors. The prerequisite is English II, so juniors can take the course in the Spring if they choose to take it their junior year. AP Literature & Composition focuses on the study and appreciation of poetry, fiction, and drama. Basic critical approaches to interpreting literature are emphasized, and students will focus on a broad range of authors from a variety of cultures and a wide span of historical periods. Students are expected to have a firm understanding of standard grammar and

usage and be able to write in response to literature. Students will write analysis and argumentative essays about poetry, fiction, and drama. This class prepares students for the AP exam and those scoring a 3, 4 or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass each term of this course will receive a weighting of one point in their GPA. **This class is offered as a concurrent credit class with DMACC's Introduction to Literature (LIT 101), and students passing the 2nd term of this course will receive 3 DMACC college credits.**

**CREATIVE WRITING: 7051**

(COLLEGE CORE)

GRADES 9-12                    1 CREDIT                    1 TERM

Students will produce a variety of writing, to include poetry, drama, short stories, lyrics, and personal narratives. Students will be reading and discussing a wide range of writing in order to inform their own work. Students will complete creative writing exercises in order to enhance their abilities as creative writers. Class time will be spent alternating between structured discussion, reading, and writing activities and writer's workshop designed to give students time to write and receive feedback from the instructor and peers.

**DRAMA: 7121**

(NON-COLLEGE CORE)

GRADE 9-12                    1 CREDIT                    1 TERM

Drama I is a one term course that builds students' abilities in performance of theater arts. It focuses on body control, voice, improvisation, and character analysis. Students will study American plays with a focus on characterization. In addition, audition techniques will be discussed and practiced. The term will conclude with the performance of a scene.

**DRAMA II: 7122**

Prerequisite: Drama I (NON-COLLEGE CORE)

GRADE 9-12                    1 CREDIT                    1 TERM

Drama II is an English elective that expands on the work done in Drama I. Students will analyze scripts to determine how a character is created by the author and work to bring the character to life on stage. Analysis of character through dialogue and stage directions will guide students to understand the character and the world they inhabit. Students will then work with acting and directing techniques to bring these characters to life in a truthful way. Scripts from multiple time periods and cultures will be used.

**ENGLISH I: 7013, 7014**

(COLLEGE CORE)

GRADE 9                        2 CREDITS                    2 TERMS

Building upon the students' skills and knowledge gained in middle school language arts studies, English I is a course designed to review and to expand the student's abilities to take all roles in the communication process...reader, writer, speaker, and listener. The initial required curriculum is a skill-oriented course, which provides a functional foundation for subsequent study and for practical application. As such, English I covers a broad spectrum of language activities within its two term course of study and is rooted in basic skills concepts in all phases of language.

**ENGLISH II: 7021, 7022**

Prerequisite: English I (COLLEGE CORE)

GRADE 10                    2 CREDITS                    2 TERMS

English II provides opportunities to improve written expression and focus on American literature. By focusing on the writing process, grammar and mechanics, structure and development of sentences and paragraphs, and learning how to communicate with others via technology, students will be able to improve their writing skills. Throughout the course students will write for three different purposes: to inform, to entertain, and to persuade.



Literature in this course will touch on major genres while assessing the contributions of authors of different backgrounds in America.

**ENGLISH III: 7031, 7032**

Prerequisite: English II (COLLEGE CORE)

GRADE 11 2 CREDITS 2 TERMS

Change the whole description to: English III emphasizes nonfiction reading and writing. Students will strengthen their critical thinking skills by reading complex texts, building research skills, making claims, providing text evidence, and elaborating on commentary. Vocabulary, literary terms, and grammar, along with their application, are heavily integrated into this curriculum. This course will prepare a college-bound student well for further explorations in subsequent classes such as English IV, AP Literature, and/or AP Composition.

**English IV: 7034**

Prerequisite: English III (COLLEGE CORE)

GRADE 12 1 CREDIT 1 TERM

This senior-level elective English course is a natural progression from English III. Students will read non-fiction texts, write argument and analysis, and learn practical reading, research, and writing skills. The course is also organized to introduce the student to more complex and more advanced writing and reading concepts they may face in college and the work field. Overall, the course will provide the student with a thorough background for successful post-secondary study and/or career readiness.

**JOURNALISM: 7053, 7054**

(COLLEGE CORE)

GRADES 9-12 2 CREDITS 2 TERMS

Students in journalism will be provided an opportunity different from other language arts classes because it focuses on sharing stories through writing, photography, and design. Students interested in exploring English-related career pathways now have a chance to dive into the various parts of the journalism industry. They will look at fundamental concepts behind print, broadcast, advertising, and Internet sectors. Student work may be published on a school-hosted site. In addition, students in this class will evaluate the media and its biases.

**NOVELS: 7050**

(COLLEGE CORE)

GRADES 9-12 1 CREDIT 1 TERM

Novels is a one term literature elective. This course allows students to study a variety of novels of their choice in an independent, individualized setting. Students will read books of their choice everyday in this class and are expected to read four books in entirety throughout. Students are required to read at least one graphic novel and one non-fiction book of their choice. Students will reflect on their reading and complete projects tailored to the literary elements focused on throughout the term. This course is available to 9th-12th grade students. One English elective credit is earned in completing this course.

**SPEECH: 7100**

(COLLEGE CORE)

GRADES 11-12 1 CREDIT 1 TERM

To be a success in any walk of life, a person must be able to communicate with others. In speech class, special emphasis is placed on communication skills and developing the necessary qualities of a good speaker and listener. Areas of study include speechmaking, informative speaking, oral interpretation, persuasive speaking, and impromptu speaking. A strong emphasis is placed on verbal and nonverbal communication. This is a required, one term course.

**INTRO TO YEARBOOK: 7055**

GRADES 9-12

1 CREDIT

1 TERM

Intro to Yearbook is offered as a one-term course. This course utilizes fundamental English and language arts skills in producing the yearbook. Students will learn about page layout and design, publishing, photography, and sales skills. Topics may include headlines, captions, interviews, marketing, and more. It will operate like a professional publication with staff positions being assigned and completing assignments on a deadline. By the end of the school year, students will have produced a book that accurately documents the time at DC-G that year.

**YEARBOOK LAB: 7056**

Prerequisite: Intro to Yearbook

GRADES 9-12

1 CREDIT

1 TERM

Yearbook Lab is offered as a one-term course, though students can and are encouraged to take it for the entire year if they are able. This course utilizes fundamental English and language arts skills in producing the yearbook. Yearbook Lab students will enhance their understanding and performance of page layout and design, publishing, photography, and sales skills. Topics may include headlines, captions, interviews, marketing, and more. It will operate like a professional publication with staff positions being assigned and completing assignments on a deadline. By the end of the school year, students will have produced a book that accurately documents the time at DC-G that year. Students may take Yearbook Lab multiple times, receiving elective credit the second and any subsequent times they take the course.

## MATHEMATICS PREREQUISITES

In order to sign up and take certain math courses, the following prerequisites **must be met**:

Math Course	Prerequisites	
Algebra I	None	
Geometry	✓ Algebra I	
Algebra II	✓ Geometry	
Trigonometry/Pre-Calculus	✓ Algebra II	
AP Calculus AB	✓ Trigonometry/Pre-Calculus	
AP Calculus BC	✓ AP Calculus AB	✓ Teacher Approval (Trig/Pre-Calc prerequisite)
Statistics	✓ Algebra II	
AP Statistics	✓ Algebra II	

## MATHEMATICS COURSE DESCRIPTIONS

### ALGEBRA I: 4033, 4034

(COLLEGE CORE)

2 CREDITS

2 TERMS

This course will focus on the study of the literal numbers and operations performed with them to solve equations. Students will be encouraged to write equations to solve real-world problems. An emphasis of the course will be on functions: finding numerical values, writing rules, graphing, and transformations with the graphs.

### ALGEBRA II: 4043, 4044

Prerequisite: Algebra I and Geometry (COLLEGE CORE)

2 CREDITS

2 TERMS

Algebra II is an in-depth continuation of Algebra, which develops the skills attained in Algebra I, and introduces many new topics such as: logarithms, quadratics, conics, radicals, introduction to trigonometry, and probability. The emphasis is on a thorough understanding of number properties and skill in working with mathematical concepts.

### AP Calculus AB/DMACC - MAT 211 - Calculus I: 4023, 4024

Prerequisite: Trig./Pre-Calculus (COLLEGE CORE)

2 CREDITS

2 TERMS

Students taking this course will work with mathematics designed for use in engineering, economics, earth science, mathematics and physical sciences. This course includes the study of elementary functions, limits, continuity, derivatives, integrals, the application of derivatives and integrals, and basic differential equations. Students will learn problem solving methods that can apply across real-world problems. Students will also use technology to explore, experiment, interpret results, and support conclusions. This course is designed to be taken after Trig/Pre-Calculus. Calculus is not a prerequisite for this course but can be taken prior to taking this course. **This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students who complete and pass the course will receive a weighted grade. This class is offered as a concurrent credit class with DMACC's Calculus I (MAT 211), and students passing the 2nd term of this course will receive 5 DMACC college credits.**

**AP CALCULUS BC: 4028, 4029**

Prerequisite: Trig/Precalculus with Teacher Approval (COLLEGE CORE)

GRADES 11-12                    2 CREDITS                    2 TERMS

In this course, students will explore the key concepts, methods, and applications of single-variable calculus including all of the AP Calculus AB topics, as well as additional topics in differential and integral calculus, such as advanced integration techniques, infinite series, parametric, polar and vector functions. Students will learn problem solving methods that can apply across real-world problems. Students will also use technology to explore, experiment, interpret results, and support conclusions. This course is designed to be taken after Trig/Pre-Calculus. Calculus and AP Calculus AB are not prerequisites for this course but are recommendations for courses taken prior to taking this course. **This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students who complete and pass the course will receive a weighted grade.**

**AP STATISTICS: 4121, 4122**

Prerequisite: Algebra II (COLLEGE CORE)

2 CREDITS                    2 TERMS

AP Stats is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Four broad themes will be the focus: 1) Exploring Data; 2) Sampling; 3) Anticipating Patterns; and 4) Statistical Inference. **This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students who complete and pass the course will receive a weighted grade.**

**CALCULUS: 4013, 4014**

Prerequisite: Trig/Pre-Calculus (COLLEGE CORE)

2 CREDITS                    2 TERMS

To work with mathematics designed for use for students in engineering, economics, earth sciences, mathematics and physical sciences. The students will learn how to work with limits, functions, derivatives, application of derivatives, integrations, and polar equations. Calculus is recommended to college bound students going into the fields mentioned above.

**GEOMETRY: 4003, 4004**

Prerequisite: Algebra I (COLLEGE CORE)

2 CREDITS                    2 TERMS

Develop an understanding of deductive reasoning, which is the basis of any further work in mathematics. The most important thing gained is the ability to reason logically. Other major topics include: area, volume, and surface areas, properties of parallel and perpendicular lines, properties of polygons, transformations of shapes and graphs, and basic right triangle trigonometry.

**PROBABILITY & STATISTICS: 4125**

Prerequisite: Algebra II (COLLEGE CORE)

1 CREDIT                    1 TERM

Stats will cover the following topics: Tabular and graphical presentation, measures of central tendency and variation, probability rules, standard elementary procedures involving the binomial, normal, student's T and chi-square distributions, correlation, regression, linear regression and using sample statistical data to make predictions about population parameters. Graphing calculators will be used extensively in this course.

**TRIGONOMETRY/PRE-CALCULUS: 4103, 4104**

Prerequisite: Algebra II (COLLEGE CORE)

2 CREDITS                    2 TERMS

Trig/Precalculus is an in-depth continuation of Algebra 2 and a precursor to Calculus courses. The course reviews most of the concepts learned in Algebra 2 and extends them into more advanced problems. Those topics are analyzing functions, exponential functions, logarithms, radical functions, rational functions, conic sections, right triangle trigonometry, the Unit Circle, and analytic trigonometry. Other topics introduced in this course are vectors, matrices, systems of equations and inequalities, parametric equations and the polar coordinate system.

## Science Prerequisites

In order to sign up and take certain science courses, the following prerequisites **must be met**:

Science Course	Prerequisites		
Biology	None		
AP Biology	✓ Chemistry I and Physics I OR Physical Science	✓ Algebra I	
Chemistry	✓ Chemistry I and Physics I OR Physical Science	✓ Algebra I	
AP Chemistry	✓ Chemistry I and Physics I OR Physical Science	✓ Chemistry	✓ Algebra II
Physics	✓ Chemistry I and Physics I OR Physical Science	✓ Geometry	
AP Physics I	✓ Chemistry I and Physics I OR Physical Science	✓ Algebra II	
AP Physics II			
Earth & Environmental Science	✓ Chemistry I and Physics I OR Physical Science	✓ Biology or AP Biology	✓ Algebra I
AP Environmental Science	✓ Chemistry I and Physics I OR Physical Science	✓ Biology or AP Biology	✓ Algebra I
Anatomy & Physiology	✓ Biology OR AP Biology		
Botany (I & II)	Grades 10-12		

## SCIENCE COURSE DESCRIPTIONS

### ANATOMY & PHYSIOLOGY: 5123, 5124

Prerequisite: Biology or AP Biology (COLLEGE CORE)

2 CREDITS                      2 TERMS

This course is a classic integration of human anatomy and physiology at the cellular level and organ/system level. Students will learn the main structures and functions of the eleven body systems, as well as how the body systems work together to function as a whole organism. Includes various dissections.

### AP BIOLOGY: 14519, 14520

Prerequisite: Algebra I, Physical Science or Chemistry I (COLLEGE CORE)

2 CREDITS                      2 TERMS

This class is a college level course designed for college freshmen. Each college has its own standard for the college credit allowed for this course. With AP Biology being taught as a college course, it requires students to engage in self-study of the textbook and continuous reading on a daily basis. The class is taught at a brisk pace and students are expected to spend a significant amount of time outside of class to learn, understand, and study the material. Units covered in AP Biology include: the chemistry of life, cells, bioenergetics, cell reproduction and heredity, genetics, evolution, and ecology. **This class prepares students for the AP exam and those scoring a 3, 4 or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass the course will receive a weighting of one point on their GPA.**

**AP CHEMISTRY: 5103, 5104**

Prerequisite: Physical Science or Chemistry I, Chemistry, and Algebra II (COLLEGE CORE)

2 CREDITS                      2 TERMS

Deals with the structure and composition of matter at a college level. Students perform various laboratory experiments to better understand materials present. Recommended for students that have a strong desire to go into a science/medicine related fields. **This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass the course will receive a weighting of one point on their GPA.**

**AP ENVIRONMENTAL SCIENCE: 5013, 5014**

Prerequisite: Algebra I, Biology or AP Biology (COLLEGE CORE)

GRADES 10-12 2 CREDITS 2 Terms

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. **This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass the course will receive a weighting of one point on their GPA.**

**AP PHYSICS I: 5061, 506I**

Prerequisite: Physical Science or Physics I and Algebra II (COLLEGE CORE)

2 CREDITS                      2 TERMS

AP Physics I is an algebra-based, introductory physics course that explores topics such as kinematics, Newtonian mechanics (including rotational motion), Simple Harmonic Motion, oscillatory motion, work, energy, and power. Through inquiry-based learning, graphical analysis, mathematical principles, and lab activities, students will develop scientific critical thinking and reasoning skills to engage in physics content. **Class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass the course will receive a weighting of one point on their GPA.**

**BIOLOGY: 5033, 5034**

(COLLEGE CORE)

GRADES 10                      2 CREDITS                      2 TERMS

This course is an integrated life science course that includes a range of topics from interactions of organisms to their cellular structure and function.

**BOTANY I: 5113**

(COLLEGE CORE)

GRADES 10-12                      1 CREDIT                      1 TERM

This course is offered to students interested in gaining knowledge and skills in several areas of botany. Instruction will be provided in basic plant science including horticulture careers, plant structure, propagation, and greenhouse management. The major focus of the class is to understand how to successfully reproduce and care for a variety of plants, from seeds to cloning techniques, students will work with and care for their own plants on a regular basis. The class will be taught using classroom work, along with greenhouse duties mainly consisting of planting, watering, fertilizing, and caring for plants. Field trips may also be a part of this class. Botany I and II can be taken in any order, and students may take one course or both.

**BOTANY II: 5114**

(COLLEGE CORE)

GRADES 10-12                      1 CREDIT                      1 TERM

This course is offered to students interested in gaining knowledge and skills in the several areas of botany. Instruction will be provided in basic plant science including plant grafting, succulent dish gardens, bonsai, and tropical house plants. Additionally, there will be units on shrubs and trees, bedding (flower bed) plants, perennials, lawn care and vegetable gardening. The class will be taught using classroom work, along with greenhouse duties mainly consisting of planting,

watering, fertilizing, and caring for plants. This course also traditionally prepares production plants for a Spring Plant Sale. Field trips may also be a part of this class. Botany I and II can be taken in any order, and students may take just 1 course or both.

**CHEMISTRY: 5073**

Prerequisite: Chemistry I or Physical Science, Algebra I (COLLEGE CORE)

Grade 10-12                      1 CREDIT                      1 TERM

In Chemistry, students will use science practices to build upon the content knowledge and skills developed in the Physical Science or Chemistry I course to engage in scientific investigation design and analysis. Specific topics include stoichiometry, gas laws, and acids and bases.

**EARTH AND ENVIRONMENTAL SCIENCE: 5010  
(FOR THE CLASS OF 2025 AND BEYOND)**

Prerequisite: Biology, Physical Science or Chemistry I and Physics I, Algebra I

GRADES: 11-12                      1 CREDIT                      1 TERM

This course focuses on providing students with scientific principles and concepts to understand the interrelationships of the natural world/universe and how humans impact the natural world. This course will cover the following topics: the universe, Earth formation, Earth processes, human impact on climate change, and sustainability.

**PHYSICS: 5063**

Prerequisite: Physical Science or Physics I, Geometry (COLLEGE CORE)

Grades: 10-12                      1 CREDIT                      1 TERM

In Physics, students will investigate and experiment with new ideas about forces, thermodynamics, electricity, and circuits. Additionally, students will make connections between science and modern issues such as city/building design and energy production. This course is recommended for students who want to attend a four-year college.

**PHYSICAL SCIENCE: 5070, 5071**

Grade 9 (available to class of 2027 and beyond)                      2 CREDITS                      2 TERMS

Students will use science practices to explore the physical world to more completely understand the world around them. Students will engage in topics of study that include motion, forces, energy, electricity and magnetism, waves and technology, particle model of matter, and chemical energy, bonding, and reaction. Students will use observations, engineering practices, lab activities, inquiry based learning, scientific research and writing, and other scientific practices to make conclusions about the physical world.

## Social Studies Prerequisites

In order to sign up and take certain Social Studies courses, the following prerequisites **must be met**:

Social Studies Course	Prerequisites
Western Civ	None
World Geography	None
AP World History	✓ Grade Level: 10-12
Sociology	✓ Grade Level: 10-12
Psychology	✓ Grade Level: 10-12
US History	✓ Grade Level: 11-12
AP US History	✓ Grade Level: 11-12
Economics	✓ Grade Level: 10-12
American Government	✓ Grade Level: 12
AP US Gov and Politics	✓ Grade Level: 12
Current Issues	None

## SOCIAL STUDIES COURSE DESCRIPTIONS

### AMERICAN GOVERNMENT: 6100

(COLLEGE CORE)

GRADE 12

1 CREDIT

1 TERM

This course is an in-depth study of theory, philosophy, and structure of American Government with emphasis on roles and duties of American citizens and how they reflect American Government. Students will discuss their role in government as future citizens in our communities, learn how they can participate, and begin to develop their own political beliefs.

### AP U.S. GOVERNMENT & POLITICS: 6160, 6163

(COLLEGE CORE)

GRADE 12

2 CREDITS

2 TERMS

AP U.S. Government studies the history, organization, and functions of the United States Government. Beginning with the Declaration of Independence and continuing to the present day, students will explore the relationship between individual Americans and our governing bodies. Students will closely examine our country's political culture and gain insight into the challenges faced by presidents, congresspeople, and other political activists. Students will discuss the roles of political parties, interest groups, the media, and the Supreme Court and have the chance to analyze their views on current political issues.

**This class is a concurrent course: DMACC POL 111: American National Government. A student who successfully completes this course will receive 3 DMACC credits; the AP exam is not required for these credits, and they meet**



core requirements for DMACC and many colleges and universities. This class prepares students for the AP exam, and those scoring a 3, 4, or 5 may receive additional college credit. Students are responsible for the exam fee. Students who complete and pass the class will receive a weighting of one point on their GPA.

#### **AP US HISTORY: 6061, 6062**

(COLLEGE CORE)

GRADES 11-12                      2 CREDITS                      2 TERMS

The AP US History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. This course prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP US History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Students taking this course must be highly motivated and possess a profound interest in historical study; success in this course requires a time commitment beyond the school day. **This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit. Students are responsible for the exam fee. Students who complete and pass the class will receive a weighting of one point on their GPA. This class is offered as a concurrent credit class with DMACC’s HIS151: US History to 1877 and HIS152: US History Since 1877. A student who finishes this course will receive 6 DMACC credits.**

#### **AP WORLD HISTORY 6063, 6064**

(COLLEGE CORE)

GRADES 10-12                      2 CREDITS                      2 TERMS                      DMACC Concurrent

This course is highly recommended for all those who plan to attend college, go on to study other AP courses at DCG including AP US History, or those with a strong interest in history. **Please note: This course meets both the World Geography and World History requirements for graduation. This course can be taken in place of World Geography and Western Civ or in addition to depending on your interest.** The purpose of the AP World History course is to develop a greater understanding of the evolution of global processes and contacts in different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course includes units on ancient history, medieval times, and the modern period. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge, leading interpretive issues, and skills in analyzing types of historical evidence. Periodization, explicitly discussed, forms an organizing principle to address change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study. Students taking this course must be highly motivated and possess a profound interest in historical study; this course requires a time commitment beyond the school day.

**Students who complete and pass the class will receive a weighting of one point on their GPA. This class is offered as a concurrent credit class with DMACC’s HIS 110- Western Civ: Ancient to Early Modern and HIS 111-Western Civ: Early Modern to Present (3 credits each semester). A student who finishes this course will receive 6 DMACC credits; the AP exam is not required for these credits and they meet core requirements for DMACC and many colleges and universities. This class prepares students for the AP exam and those scoring a 3, 4, or 5 may receive college credit in addition to those provided by DMACC. Students are responsible for the exam fee. Check your college of interest for more information.**

#### **CURRENT ISSUES: 6080**

(COLLEGE CORE)

GRADES 9-12                      1 CREDIT                      1 TERM

Current Issues will deal with recent history as it relates to young people and the world they live in. The emphasis will be on news events that are currently impacting the state, nation, world and individual. Themes of study may include conflict, global interaction, human rights, natural disasters and current civil liberties and rights. The class will be discussion and project-based.

#### **ECONOMICS: 6092**

Prerequisite: Algebra II                      (COLLEGE CORE)

GRADES 10-12                    1 CREDIT                    1 TERM

This course will provide an up-to-date, in-depth look at basic economic principles and practices, study of the American free enterprise system, the role of government in the American economy, the American economic system in relation to the world, and consumer economics. This course should afford students a basic understanding of economic concepts and how the United States economy operates.

**PSYCHOLOGY: 6131**

(COLLEGE CORE)

GRADES 10-12                    1 CREDIT                    1 TERM

Psychology is the study of the mind and behavior. This course highlights the major concepts of psychology related to how people think and act. Topics included in this course are the development of psychology, biological bases of behavior, cognitive psychology (how people think, learn, and remember), developmental psychology (how people change over their lifespan), personality, motivation, emotion, social psychology, and mental health.

**SOCIOLOGY: 6071**

(COLLEGE CORE)

GRADES 10-12                    1 CREDIT                    1 TERM

*(Advanced option for 9th grade students who intend to take AP World History in 10th grade.)*

Sociology is the study of groups and how people interact with one another. The course will illustrate how the groups, or social structures, that one belongs to have a significant influence on the way you think, feel, and behave. Major themes include crime and deviance, inequalities of gender and age, family and marriage, socialization and culture.

**US HISTORY: 6003, 6004**

(COLLEGE CORE)

GRADES 11-12                    2 CREDITS                    2 TERMS

This is a general survey course in the history of the political, economic, and social development of the United States from Reconstruction Era to the present time. Topics covered in this course include Westward Expansion, Industrialization and Immigration, the Progressive Era, Imperialism, World War I, the Roaring 20s, the Great Depression and New Deal, World War II, the Cold War, the Civil Rights Movement, the Vietnam War, the 1960s & 70s, and American life post Cold War.

**WESTERN CIVILIZATIONS - AGE OF EXPLORATION TO TODAY: 6052**

(COLLEGE CORE)

GRADES 9-12                    1 CREDIT                    1 TERM

This course will introduce students to the most important events, individuals, and ideas in the history of Western Civilization, from the Age of Exploration through the remaining Modern Age. Included in our focus will be the colonization of the Americas; the rise of absolute monarchs in Europe; the Enlightenment; the Reformation; Napoleon and the French Revolution; the American Revolution; the Scientific and Industrial Revolutions; the Great War; the Russian Revolution; and World War II and its aftermath.

**WORLD GEOGRAPHY : 6031**

(COLLEGE CORE)

GRADES 9-12                    1 CREDIT                    1 TERM

World Geography is the study of peoples, places, and environments, with a focus on world regions. Physical, cultural, economic and religious characteristics will be surveyed. Emphasis is placed on students' understanding and applying geographic concepts and skills to their daily lives.



## WORLD LANGUAGE COURSE DESCRIPTIONS

### **FRENCH I: 11003, 11004**

(COLLEGE CORE)

GRADES 9-12                      2 CREDITS                      2 TERMS

This course will include conversational French, with emphasis on basic grammatical patterns and beginning vocabulary, using the present tense. Listening, conversation, reading, and writing will be stressed. French speaking countries and customs will also be studied.

### **FRENCH II: 11013, 11014**

Prerequisite: French I or Teacher Approval (COLLEGE CORE)

GRADES 9-12                      2 CREDITS                      2 TERMS

This course is a continuation of French I with the addition of intermediate vocabulary and grammatical patterns. Students will expand vocabulary and learn verb tenses, past, future, etc. Beginning reading selections as well as writing and conversation in the target language will be included. French speaking countries and customs will also be studied.

### **FRENCH III: 11023, 11024**

Prerequisite: French II or Teacher Approval (COLLEGE CORE)

GRADES 10-12                      2 CREDITS                      2 TERMS

In French III students will review basic and intermediate grammar and vocabulary. Students will continue reading, writing, and speaking in the target language and will learn the imperfect tense. Conversational and written skills will be stressed. French speaking countries and customs will also be studied.

### **FRENCH IV: 11033, 11034**

Prerequisite: French III or Teacher Approval (COLLEGE CORE)

GRADES 10-12                      2 CREDITS                      2 TERMS

In French III and French IV students will review basic and intermediate grammar and vocabulary. Students will continue reading, writing, and speaking in the target language and will learn numerous verb tenses. Conversational and written skills will be stressed. Students will also study customs and countries from non-European French-speaking countries. French IV is a further in-depth study of the language.

### **SPANISH I: 11043, 11044**

(COLLEGE CORE)

GRADES 9-12                      2 CREDITS                      2 TERMS

This course will include conversational Spanish, basic grammatical patterns and vocabulary. Listening comprehension, writing, reading and speaking will be stressed. Students will also learn about Spanish speaking countries and their customs. The grammatical focus will be the present tense. Students will learn about different cultural perspectives of Spanish speaking countries.

### **SPANISH II: 11053, 11054**

Prerequisite: Spanish I or Teacher Approval (COLLEGE CORE)

GRADES 9-12                      2 CREDITS                      2 TERMS

This course includes verb tenses (preterite, imperfect and commands) and expanded vocabulary. Beginning reading selections and the writing of short compositions will be included. Students will learn about different cultural perspectives of Spanish speaking countries.

**SPANISH III: 16876, 16904**

Prerequisite: Spanish II or Teacher Approval (COLLEGE CORE)

GRADES 10-12                    2 CREDITS                    2 TERMS

In Spanish III students will review the present, preterite and imperfect tenses, formal and informal commands. They will learn the future, conditional, present perfect indicative and subjunctive, pluperfect indicative and the present subjunctive. Students will review and vastly increase their vocabulary. Students will continue reading, writing, and speaking in the Spanish language. Conversational and writing skills are stressed. Students will learn about different cultural perspectives of Spanish speaking countries.

**SPANISH IV: 16877, 16906**

Prerequisite: Spanish III or Teacher Approval (COLLEGE CORE)

GRADES 10-12                    2 CREDITS                    2 TERMS

In Spanish IV, students will learn and/or review the rest of verb tenses – subjunctive, present perfect, present progressive, and past progressive, as well as an introduction and review of the indicative, imperative and subjunctive moods. There will be a large focus on the improvement of speaking skills. Students will read an abridged version of Don Quijote de la Mancha in the second semester. Students will learn about different cultural perspectives of Spanish speaking countries.

**College Spanish IV 16907, 16908**

Prerequisites: Spanish 3 teacher recommendation (COLLEGE CORE)

GRADES 10-12. 2 CREDITS    2 TERMS

A Spanish IV course in-house for dual-college credit from DMACC (FLS 242). This course will be taught entirely in Spanish. For students who are considering continuing Spanish studies in college or students who really enjoy Spanish. Course will focus on conversational skills on everyday topics as well as more abstract concepts such as the environment & the government. Students will read authentic texts and listen to authentic scripts from native speakers. In addition, course will focus on intensive writing on topics such as art, history, technology, the environment, etc. **This class is offered as a concurrent credit class with DMACC's FLS:242: Intermediate Spanish II. A student who finishes this course with a passing grade will receive 4 DMACC credits.**

# AGRICULTURE EDUCATION COURSE DESCRIPTIONS

*Enrollment in an agricultural course is required to join FFA.*

## **AGRICULTURE BUSINESS MANAGEMENT: 3034**

GRADES 11-12                    1 CREDIT                    1 TERM

This course will focus on the basics of agricultural business and many general business practices. Topics studied will be agriculture management, goal setting and decision-making, investing, budgeting, record keeping, marketing, taxes, agricultural law, and leadership activities through the FFA. Students will also make decisions on the marketing of the fall crop. Field trips will be taken during class to further learning.

## **AGRISCIENCE I: 3013**

GRADES 9-12                    1 CREDIT                    1 TERM

Courses in this category offer instruction in related topics that are necessary or helpful in agricultural occupations or everyday living. The focus of this course will be to develop knowledge and skills in agriculture as an applied science. Such topics may include: career options in Agricultural Science, Agricultural Science in the information age, leadership development. (FFA), food science, horse management and small animal care and management.

## **AGRISCIENCE II: 3014**

GRADES 9-12                    1 CREDIT                    1 TERM

Courses in this semester will cover Agriculture Science dealing with the propagation of plants for food and fiber, plant science, home gardening, turfgrass management, and animal science. The greenhouse will be used for experiments and labs with growing plants.

## **AGRONOMY AND SOIL SCIENCE: 3033**

GRADES 11-12                    1 CREDIT                    1 TERM

The class will spend time most of the first portion studying Iowa's top crops (corn and soybeans). A lot of the educational time is spent in the test plot behind the school and not just in the classroom. The students will learn how to determine yields, scout crops for weeds and pests, journal changes in the crop, harvesting, and marketing of the crop. Students will conclude the unit with combine rides as we harvest. Students will also learn about GPS System and its many uses in agriculture. The class will also keep record books on the crop and a sales plan. Time will also be spent studying the soil and management. Field trips will be taken during class on the topic being studied. **This class is offered as a concurrent enrolment class with DMACC's AGA 157 Soil Fertility. A student who finishes this course will receive 1 DMACC college credit with the letter grade they earn.**

## **INTRO TO ANIMAL MANAGEMENT: 3004**

GRADES 9-12                    1 CREDIT                    1 TERM

Animal Science courses impart information about the care and management of animals and careers. Students may study subjects including beef, buffalo, wildlife animals, and exotic animals; also, small companion animals such as dogs, cats, birds, tropical fish, reptiles, and rodents (hamsters, guinea pigs, gerbils.) Each unit includes breeds, handling, equipment, housing, feeding, diseases and health, body language, grooming, maintenance and marketing. This is a great course to get an introduction to animals.

## **INTRODUCTION TO AGRICULTURE: 3003**

GRADES 9-12                    1 CREDIT                    1 TERM

This is an introductory course designed for any student wishing to gain a general background in the world's largest industry-agriculture. This course surveys a wide array of topics within the agriculture industry, exposing the many and varied types of opportunities in agriculture. Also included is orientation to the FFA Organization and leadership skills and leadership contests. Students will learn through hands on experiences and various labs in the shop, greenhouse and at the 20 acres crop test plot. Students will also be introduced to Animal Science.

**NATURAL RESOURCES: 3024**

GRADES 9-12                      1 CREDIT              1 TERM

This course will provide a broad and diverse study in managing our natural resources. Topics this semester will cover natural resource management, soils and water management, fish and wildlife game management, trapping, hunting and fishing laws, forest management and alternative energy minerals and metal resources.

**SURVEY OF THE ANIMAL INDUSTRY: 3035**

GRADES 10-12                      1 CREDIT                      1 TERM

This class will be an in-depth coverage of livestock and small animal care. Topics being studied will be horses, swine, sheep, poultry and rabbits. Also, there will be field trips to places of business in the community. Each unit will include breeds, handling, equipment, housing, feeding, diseases and health grooming, maintenance, and marketing. **This class is offered as a concurrent enrollment class with DMACC's AGS 113 Survey of Animal Industry. A student who finishes this course will receive 3 DMACC college credits with the letter grade they earn.**

## Art Prerequisites

In order to sign up and take certain Art courses, the following prerequisites **must be met**:

Art Course	Prerequisites		
Art I	None		
Graphic Design	✓ Art I		
Drawing	✓ Art I		
Drawing II	✓ Art I	✓ Drawing I	
Drawing III/IV	✓ Art I	✓ Drawing I	✓ Drawing II (w/teacher approval)
Painting	✓ Art I		
Painting II	✓ Art I	✓ Painting I	
Painting III/IV	✓ Art I	✓ Painting I	✓ Painting II (w/teacher approval)
Sculpture	✓ Art I		
Ceramics I	✓ Art I		
Ceramics II	✓ Art I	✓ Ceramics I	
Ceramics III/IV	✓ Art I	✓ Ceramics I	✓ Ceramics II (w/teacher approval)
Art Appreciation	✓ Grade Level: 11-12		
AP Studio Art	✓ Grade Level: 11-12 (w/teacher approval)		
Independent Art	✓ Grade Level: 11-12 (w/teacher approval)	Three art credits must be earned	

## ART COURSE DESCRIPTIONS

### ADVANCED ART COURSES (Independent Art, Ceramics/Drawing/Painting III/IV)

Prerequisite: Teacher Approval

GRADES 11-12                      1 CREDITS                      1 TERM

Students interested in advanced level classes past those listed below in painting, drawing, and ceramics, as well as independent art, may talk with counselors or art instructors for further information.

### AP ART STUDIO 12231, 12232

Prerequisite: Advanced Art Course & Teacher Approval



GRADES 11-12                    2 CREDITS                    2 TERMS

The AP Art and Design program consists of three different courses and AP Portfolio Exams—AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing—corresponding to college and university foundations courses. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. **This class prepares students for the AP exam. Students may choose to submit any or all of the AP Portfolio Exam and may receive college credit based upon their scores. Students are responsible for the exam fee. Students who complete and pass the course will receive a weighting of one point on their GPA.**

**ART I: 12033**

GRADES 9-12                    1 CREDIT                    1 TERM

Art I is a basic studio exploratory course. This course is intended to help students determine what area(s) of future art classes they would like to pursue. Students are exposed to various art media in the areas of drawing, painting, and ceramics. Art concepts such as composition, color theory, aesthetics, critique, and self-assessment are addressed.

**ART APPRECIATION: 13621**

GRADES 11-12                    1 CREDIT                    1 TERM

Art Appreciation is the recommended course for juniors and seniors that have not taken art courses but want to have a visual art credit. Art Appreciation is an introduction to art history, aesthetics, criticism, & production. This conceptual approach to art allows the student to gain a deeper understanding of visual art and its social importance throughout history, as well as its impact on the student's real world appreciation of art. **This class is offered as a concurrent credit class with DMACC's ART 101. A student who finishes this course will receive 3 DMACC college credits with the letter grade they earn.**

**CERAMICS I: 15861**

Prerequisite: Art I

GRADES 9-12                    1 CREDIT                    1 TERM

Ceramics I is the introductory level class to ceramic(clay) art. Students will explore and expand basic handbuilding techniques such as slab, pinch pot, hollow sphere, and coil. Students may also begin learning to throw on the pottery wheel. Emphasis will be on self-expression and craftsmanship with attention to surface design through additive, subtractive, and textural methods.

**CERAMICS II: 12103**

Prerequisite: Ceramics I

GRADES 10-12                    1 CREDIT                    1 TERM

Ceramics II is the expansion of skills practiced during Ceramics I. This includes the importance of self-expression, surface design, and craftsmanship. Students will be required to work on the pottery wheel for at least one project. **This class is offered as a concurrent credit class with DMACC's ART 173. A student who finishes this course will receive 3 DMACC college credits with the letter grade they earn.**

**DRAWING I: 12072**

Prerequisite: Art I

GRADES 9-12                    1 CREDIT                    1 TERM

Drawing I explores various drawing media including ink, chalk pastel, oil pastel, charcoal, colored pencil, and graphite. Students will further develop skills in perspective, proportion and use of value. Self expression and craftsmanship will be key components to the development of student work.

**DRAWING II: 12075**

Prerequisite: Drawing I

GRADES 10-12                    1 CREDIT                    1 TERM

Drawing II continues to focus on building technical skills along with self-expression and craftsmanship. Students

will have more independence in selection of drawing media and subject matter. **This class is offered as a concurrent credit class with DMACC's ART 133. A student who finishes this course will receive DMACC college credit with the letter grade they earn.**

**GRAPHIC DESIGN: 12051**

Prerequisite: Art I

GRADES 9-12                      1 CREDIT                      1 TERM

Graphic Design covers the basic use of Photoshop and Illustrator. Students will apply the use of design elements to solve graphic art problems. These will include projects based on personal expression and others based on set criteria. Students will be expected to work at school only as computers are not available to take home.

**PAINTING I: 14917**

Prerequisite: Art I

GRADES 9-12                      1 CREDIT                      1 TERM

Painting I covers the painting media of acrylic and watercolor. Curriculum will cover value color mixing, and composition. Continues the study and use of art principles/elements as well as critique and self-assessment.

**PAINTING II: 12068**

Prerequisite: Painting I

GRADES 10-12                      1 CREDIT                      1 TERM

Painting II will expand on the basics of painting. Students will be exposed to many areas of painting with a focus on the communication of ideas. Continues the study and use of art principles/elements as well as critique and self-assessment. **This class is offered as a concurrent credit class with DMACC's ART 143. A student who finishes this course will receive 3 DMACC college credits with the letter grade they earn.**

**SCULPTURE: 12130**

Prerequisite: Art I

GRADES 9-12                      1 CREDIT                      1 TERM

Sculpture explores various three-dimensional building techniques. Wire, clay, plaster, cardboard, foam, paper, and other media may be implemented. There will be an emphasis on personal expression, craftsmanship, and ingenuity to plan successful designs.

## BUSINESS EDUCATION COURSE DESCRIPTIONS

*Enrollment in a business course is required to join DECA.*

### **ACCOUNTING: 14033, 14034**

GRADES 11-12                    2 CREDITS                    2 TERMS

This accounting course will introduce and then expand upon the fundamental accounting procedures used in small businesses. This course covers the full accounting cycle and incorporates topics such as payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles to the projects they work on and may prepare budgets and final reports. Projects are also done on Excel and an automated program on the computer. **This class is offered as a concurrent credit class with DMACC's ACC104. A student who completes the 2nd term of this course will receive 3 DMACC college credits with the letter grade they earn.**

### **BUSINESS COMPUTER APPLICATIONS: 14002**

GRADES 9-12                    1 CREDIT                    1 TERM

Students will use Microsoft Office software package that contains a combination of software applications to create text documents, analyze numbers, create presentations, manage large files of data, and create professional marketing tools. Students will learn to share data between applications of Word, Excel, and PowerPoint.

### **BUSINESS LAW: 14052**

GRADES 11-12                    1 CREDIT                    1 TERM

This course helps students study the evolving set of rules and laws that form our legal structure. A focus is on the substance and the process of our legal system where students will encounter and explore many important social and ethical issues. They will examine practical issues related to their daily lives, both now and in the future.

### **ENTREPRENEURSHIP: 14073**

GRADES 10-12                    1 CREDIT                    1 TERM

This course is designed to help students understand how to start & operate a business. Course content includes the process in planning small business, competition, developing marketing plan, pricing, sales planning, financing, management, law & career opportunities. **This class is offered as a concurrent credit class with DMACC's BUS 148. A student who finishes this course will receive 3 DMACC college credits with the letter grade they earn.**

### **INTRODUCTION TO BUSINESS: 14022**

GRADES 9-12                    1 CREDIT                    1 TERM

This class covers an array of topics and concepts related to the field of business. Concepts introduced are banking and finance, checking and savings accounts, bank services, how credit works, investing and management of money at the business and personal level including the stock market, insurance (auto, homeowners, health, and life), and a brief overview of the American economic system.

### **MARKETING: 14026**

GRADES 9-12                    1 CREDIT                    1 TERM

This course is designed to introduce the students to basic marketing concepts and principles as they relate to business, sales, entertainment, and sports. Students will also examine the skills necessary to obtain and maintain a job by researching career interests. In addition, students will learn life skills such as technology, personal finance and written and verbal communication. Marketing is a co-curricular class that encourages students to participate with DECA and apply skills learned in class to real world applications.

**PROFESSIONAL SALES MARKETING: 14027**

GRADES 10-12                      1 CREDIT                      1 TERM

The course is offered to continue the student's education in business and marketing. The focus of the class will include hands-on activities in a variety of areas. Some of the areas included are: advertising, graphic design, human relations, entertainment, sports, and management. Students will receive training in such career and technical education areas as selling, merchandise information, duties related to preparing merchandise for sale, and management concepts. Professional Sales Marketing is a co-curricular class that encourages students to participate with DECA and apply skills learned in class to real world applications. **This class is offered as a concurrent credit class with DMACC's MKT 140. A student who finishes this course will receive 3 DMACC college credits with the letter grade they earn.**

**SPORTS AND ENTERTAINMENT MARKETING: 14025**

GRADES 9-12                      1 CREDIT                      1 TERM

This class will cover national marketing standards using an industry that brings relevance and enjoyment to the student. Students will cover topics including sports and entertainment products, price decisions, market research, licensing, endorsements, promotion, careers, and marketing plans. Real world scenarios will be used for this course, as students will have the opportunity to work with local sports and entertainment venues.

## FAMILY AND CONSUMER SCIENCE COURSE DESCRIPTION

### **CHILD DEVELOPMENT: 2012**

GRADES 10-12                      1 CREDIT                      1 TERM

The focus of this class is for students to understand the development of children. Information is presented to help today's future families successfully meet the unique challenges they may face. Units will include the decision to parent, prenatal development, infancy, toddlers, and preschoolers, and the developmental tasks during these stages. Many contemporary parenting concerns, ranging from child abuse to substitute child care to children's education needs are explored. Students will learn how to promote interactions that are enjoyable, supportive, encouraging and rewarding.

### **CULINARY ARTS I: 2051**

GRADES 9-12                      1 CREDIT                      1 TERM

Culinary Arts I is a comprehensive course ranging from nutritional information, basic meal planning, and basic food preparation skills. The class includes in class activities, safety and sanitation assessment as well as labs.

### **CULINARY ARTS II: 2052**

Prerequisite: Culinary Arts I

GRADES 9-12                      1 CREDIT                      1 TERM

This course will broaden the student's understanding of the science of food, International foods, and will include more in depth/complex food preparation.

### **FASHIONS I: 2005**

GRADES 9-12                      1 CREDIT                      1 TERM

Fashions introduces students to fashion, consumer awareness, garment construction, technology, and careers. This course will focus on the design and construction foundations of fashion. Students will examine how the elements and principles of design have changed throughout the years and learn how to apply them to current fashion. They will learn how to hand stitch and safely operate a sewing machine to construct garments and accessories. This hands-on approach can prepare students for many future careers and life experiences.

### **FASHIONS II: 2006**

GRADES 9-12                      1 CREDIT                      1 TERM

Prerequisite: Fashions I

This course is designed to prepare students for further education and provide hands-on experience to careers in the fashion industry. Students will acquire advanced skills in garment construction, apparel merchandising and business management in the fashion industry. Students will design a cohesive collection and have their work displayed in the student-led Fashion show at the end of the year.

### **HOUSING AND INTERIOR DESIGN: 2010**

GRADES 9-12                      1 CREDIT                      1 TERM

This is a comprehensive course concerned with homes as an environment for families, human needs and housing, choosing a career in the housing profession, early homes, housing trends, and buying a home. The course also includes the elements and principles of design, architectural styles, and floor plans. Class work will include a cumulative major individual project for prospective clients in the Des Moines area.

### **INDEPENDENT LIVING: 2024**

GRADES 11-12                      1 CREDIT                      1 TERM

This elective one semester course is designed to give students exposure to a variety of skills needed for independence, such as grocery shopping, cooking, college/career readiness, health and safety, homecare, navigating the community and communication. These important life skills are used as a backdrop to practice critical problem solving and social skills.

**PERSONAL LIVING SKILLS: 2037**

GRADES 9-10

1 CREDIT

1 TERM

This is a comprehensive course designed to help students meet the challenges of daily life as an adolescent with confidence.

Topics covered are: Personal Growth, Interpersonal Skills, Management Skills, and Relationships in your life.

## INDUSTRIAL TECHNOLOGY COURSE DESCRIPTIONS

### **ADVANCED METALWORKING: 13101**

Prerequisite: Welding

GRADES 10-12                      1 CREDIT                      1 TERM

Students will expand on their knowledge and skills of metalworking in this course. Operations will include machining, welding, bending, forming and cutting metal. The goal of this course will be for students to choose a specific problem(s) to solve by designing and building a product(s) to meet specific criteria set forth at the beginning of the project. Students may be asked to provide the metal for larger projects or multiple smaller projects of their choice.

### **ADVANCED WOODS: 13062**

Prerequisite: Woods

GRADES 10-12                      1 CREDIT                      1 TERM

This class builds off the skills learned in Woods class. Students will have the opportunity to build a project of their own, using material they provide. This project will help students to understand all aspects of production, from design, research, layout, producing parts, assembly, finish, and overall production quality.

### **INTRODUCTION TO CONSTRUCTION: 13067**

GRADES 9-12                      1 CREDIT                      1 TERM

Intro to Construction introduces students to the field of construction trades. This course will include in-class work and project-based lessons around the following construction techniques: basic electrical wiring, drywall installation and patching, basic home maintenance repair, and general construction.

### **WELDING: 13100**

GRADES 9-12                      1 CREDIT                      1 TERM

This course will involve processes to learn basic welding, bending, cutting, machining and shaping processes. Students will learn skills and knowledge through hands-on approach to both problem solving and project development.

### **WOODS: 13061**

GRADES 9-12                      1 CREDIT                      1 TERM

Introduces students to the wide variety of techniques in the construction industry, by using woodworking projects. Students will learn about safety, measurement, blueprint reading, use of hand tools, and power tools. Students will be exposed to small individual projects that will support their skills in measuring, shop math, layout, and safety in a shop setting.

## COMPUTER SCIENCE COURSE DESCRIPTIONS

### **ADVANCED CODING: 80014, 80015**

Prerequisite: Intro to Coding

GRADES 10-12                    2 CREDITS                    2 TERMS

This advanced course uses Java as a primary programming tool which aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course provides students with a firm foundation in problem-solving methods in computer programming and facilitates the development of good structured programming skills for solving business problems. Students will define and analyze problems, design computer solution algorithms and prove the correctness of the solution. **This class is offered as a concurrent credit class with DMACC's CIS 125. Students who complete the second term of this course will receive 3 DMACC college credits.**

### **INTRO TO CODING: 80016**

GRADES 9-12                    1 CREDIT                    1 TERM

This introductory course teaches the fundamentals of computer programming through the Python programming language. Emphasis is placed on common algorithms and programming principles used throughout the industry. During the course, students will design, code, test, and debug Python language programs. Projects and problems include turtle graphics, basic games, and simple robotics.

### **INTRO TO COMPUTER SCIENCE: 80012**

GRADES 9-12                    1 CREDIT                    1 TERM

Through Intro to Computer Science, students will develop a general understanding of how data is created and stored, how that data is transferred through the Internet, how to protect that data, and finally what we can do with that data. This introductory course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

### **WEBSITE DEVELOPMENT: 8052**

GRADES 9-12                    1 CREDIT                    1 TERM

This Web Development course is a project-based course that teaches students how to build their own web pages. Students will learn HTML, CSS, and Bootstrap as they create their own live sites to serve as portfolios of their creations. By the end of this term long course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi-page websites.



## MUSIC COURSE DESCRIPTIONS

### **BAND: 9001, 9002, 9013, 9014**

GRADES 9-12                      2 CREDITS                      YEAR-LONG SKINNY

Band is open to all students with any prior background in instrumental music. Each student will be a part of Concert Band, Marching Band, and Pep Band. Individual lessons are very important and are required of each student. Lessons occur during study halls. The Band Department also offers opportunities for participation in Jazz band. Participation in Jazz Band is by audition only, and is at the discretion of the director. Students may elect to participate in state solo/ensemble contests, as well as audition for the All-State Band and various honor bands. Each student is expected to continually improve individual skills on their respective instrument, as well as continually strive to achieve their highest quality of performance in an ensemble setting. Each student is expected to contribute to the best of his or her ability. All performances are required, graded events.

- Concert Band studies many styles of music throughout the year. In addition to home concerts, the concert band performs at State Large Group Festival.
- Marching Band meets one week or more before school begins in the fall for band camp, and the season continues through the middle of October. The band performs at all home halftime shows, the Dallas Center Fall Festival Parade, and various competitions throughout central Iowa. Early morning rehearsals are required.
- Pep Band performs at boys' and girls' double-header home basketball games.
- Jazz Band is extra-curricular and rehearses outside of the regular school day during parts of the year. In addition to home concerts, the jazz band competes at State Jazz Festival and 3-4 local competitions.

### **BASS CLEF CHOIR: 9041, 9042, 9043, 9044**

GRADE 9                              2 CREDITS                              YEAR-LONG SKINNY

This is a non-auditioned bass clef choir for all students in grades 9-12 that meets every day. Students in this choir will learn the basics of singing technique and music literature. Students will perform beginning and standard level bass clef choir literature throughout the year. Students will perform in a minimum of 4 concerts per school year. Students may participate in IHSMA Solo and Small Group Contest. Students in this choir are expected to have a minimum of one voice lesson per quarter.

### **BELLA VOCE SINGERS: 90011, 90012, 9013, 9014**

Prerequisite: Auditioned

GRADES 10-12                      2 CREDITS                      YEAR-LONG SKINNY

This is an Advanced Treble Choir offered to HS students that meets every day. Members of this ensemble will participate in IHSMA Solo and Small Group Contest and participate in a minimum of 4 concerts per year. The group will work on advanced singing techniques and music literature. This group may be asked to perform at informal performances in the community. Singers in this choir will sing advanced high school and college level literature. Students in this choir are expected to have a minimum of one voice lesson per quarter

### **CONCERT CHOIR: 9051, 9052, 9053, 9054**

Prerequisite: Auditioned

GRADES 10-12                      2 CREDITS                      YEAR-LONG SKINNY

This is an auditioned choir for singers in high school that meets every day. Members of the choir have the option of participating in IHSMA Solo and Small Group Contest and will perform in a minimum of 4 concerts per school year. The group will work on advanced singing techniques and music literature. This group will perform standard to advanced high school level literature. Students in this choir are expected to have a minimum of one voice lesson per quarter.

### **DC-G SINGERS: 9006, 9007, 9008, 9023, 9024**

Prerequisite: Auditioned

GRADES 10-12                      2 CREDITS                      YEAR-LONG SKINNY

This will be the most advanced ensemble offered to HS students.. Members of this ensemble will audition for All-State, participate in IHSMA Solo and Small Group Contest, and participate in a minimum of 6 concerts per school year. The group will work on advanced singing techniques and music literature. Singers in this ensemble will sing college level literature. This group is the flagship group of the program and may be asked to sing at assemblies or community events. Students in this choir are expected to have a minimum of one voice lesson per quarter.

**MUSIC THEORY: 9021, 9032**

Prerequisite: Current participation in Band or Choir

GRADES 11-12                    2 CREDITS                    2 TERMS

This course is for anyone interested in music that plans to make music a major part of his/her life after high school. A certain degree of music knowledge and background in music is required to be a part of the class. Students in music theory need to be self-motivated and willing to self-start projects and assignments. The basics of music theory, musical styles, composition techniques, and piano skills will be included.

**TREBLE CLEF CHOIR: 9015, 9016, 9017, 9028**

GRADE 9                    2 CREDITS                    YEAR-LONG SKINNY

This is a non-auditioned treble clef choir for all students in grades 9-12 that meets every day. Students in this choir will learn the basics of singing technique and music literature. Students will perform beginning and standard level treble choir literature throughout the year. Students will perform in a minimum of 4 concerts per school year. Students may participate in IHSMA Solo and Small Group Contest. Students in this choir are expected to have a minimum of one voice lesson per quarter

## PHYSICAL EDUCATION COURSE DESCRIPTION

### **MUSTANG WELLNESS: 60008 (Replacing Lifetime Activities)**

GRADES 9-12                      1 CREDIT                      1 TERM

Mustang Wellness is a physical education course focused on enhancing students' overall health and fitness through the accessible and effective practice of walking. This course highlights the importance of daily physical activity and promotes walking as a lifelong, low-impact exercise that supports cardiovascular health, muscular endurance, and mental well-being. Students will engage in a variety of walking routes and paces to meet personal fitness goals. The course also includes lessons on goal setting, tracking progress with fitness apps or pedometers, incorporating stretching and flexibility routines, and understanding the physical and mental benefits of regular exercise.

### **MUSTANG PERFORMANCE I: 60007**

GRADES 9-12                      1 CREDIT                      1 TERM

Mustang Performance will provide students the opportunity to develop the foundational knowledge and general movement skill required to participate consistently and safely in a strength training program. A couple learning targets of this course include improving kinesthetic awareness, enhancing fundamental movement patterns, and developing proper technique of strength training exercises. Students will learn various concepts such as basic anatomy & physiology, performance nutrition, and safety considerations that are necessary for participation in a strength training program. Students will have the opportunity to train on a periodized, developmentally-appropriate program in a safe learning environment with their peers. Additionally, this course is closely aligned with the DCG Athletic Performance program.

### **MUSTANG PERFORMANCE II: 60005**

Prerequisite: Mustang Performance I or Teacher approval

GRADES 10-12                      1 CREDIT                      2 TERMS

Mustang Performance II will provide students the opportunity to train consistently to develop specific physical capabilities while learning advanced concepts & principles of strength training. Students will expand upon their knowledge gained during the Foundational Strength course to enhance skill-related components of fitness, reduce the overall risk of injury, and improve athletic potential. Strength & Speed focuses on developing a collaborative environment in which students work together to establish proficiency in strength training technique and the learning of advanced movement patterns. Students will use the acquired learning in the development of their own individualized training program. Additionally, this course is closely aligned with the DCG Athletic Performance program.

### **PEER PHYSICAL EDUCATION: 10036**

Prerequisite: Teacher Approval

Grades 9-12                      1 CREDIT                      1 TERM

Peer PE provides an opportunity for differentiation in physical education. To be accepted into this course, you must have a willingness to work closely with classmates in a differentiated setting. This adaptive physical education course pairs peer helpers with peers to participate cooperatively in a physical education environment. Students wishing to be enrolled in this course will help facilitate a safe, positive experience for adaptive PE students. Please see Mr. Castenson with any questions or to request more information. This course will be offered during Term 1 or Term 4.

### **MUSTANG FITNESS & GAMES: 60003 (Replacing Team Sports)**

GRADES 9-12                      1 CREDIT                      1 TERM

Mustang Fitness & Games will promote teamwork and collaboration while developing physical fitness and promoting a healthy, active lifestyle. Various concepts and strategies related to competitive sports games will be introduced.

Activities may include, but are not limited to: Volleyball, Basketball, Pickleball, Lacrosse, Spikeball, Frisbee Games, and Tchoukball.

### **DC-G PE Exemptions:**

- **School-to-Work**
- **DMACC/Central Campus classes off-campus**
- **Waukee APEX**



## MISCELLANEOUS COURSE DESCRIPTIONS

### **CAREER EXPLORATION: 22007**

GRADES 10-11                      1 CREDIT                      1 TERM

Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills. Students will do job shadows in career fields of their choosing. There will also be coursework related to career searches, employability skills, interviewing, and resume building. **Students will need to provide their own transportation to all job shadow opportunities.**

### **COUNT ON ME! QUALITIES OF EFFECTIVE LEADERS/ROLE MODELS: 22003**

GRADES 11-12 (10 with recommendation and teacher approval)                      1 CREDIT                      1 TERM

Leadership class is designed to expose students to 18 qualities/traits that will help them to positively influence those around them. This class is for anyone who desires a leadership position in their group, club, team, or those who just want to make our high school a better place. Each week the class will discuss a different trait, read about role models who display them, engage in activities that will reinforce them, and listen to guest speakers share personal stories that relate to the topic that week.

### **ENGLISH LANGUAGE LEARNERS (ELL) STUDY SKILLS: 17505, 17506**

Prerequisite: Teacher Approval

GRADES 9-12                      1 CREDIT                      SEMESTER OR YEAR-LONG

This course is aimed at those students developing proficiency in English who have a working knowledge of English and who want to continue improving their English skills. The emphasis is on developing academic language through content-based instruction and support for curricular coursework.

### **FINANCIAL LITERACY: 4111**

(NON-COLLEGE CORE)

GRADES 11-12                      1 CREDIT                      1 TERM

A look at financial choices and decisions students will have to face in their lives. Students will gain the knowledge to make better decisions regarding their financial future. Some of the major topics that will be covered include insurance, banking needs, financial planning, taxes, credit cards, home buying and associated costs, and balancing a budget. This class is designed for all levels of students.

### **FINANCIAL LITERACY II: 4112**

Prerequisite: Financial Literacy I (NON-COLLEGE CORE)

GRADES 11-12                      1 CREDIT                      1 TERM

This class will go deeper into topics such as investing and insurance. We will also cover major topics such as financial life after high school and cost involved, and how money affects relationships, careers and taxes, and bargain shopping.

### **GT SEMINAR: 1072**

Prerequisite: TAG Student, Instructor Approval

GRADES 9-12                      1 CREDIT                      1 TERM

This course offers a unique opportunity for gifted and talented students to investigate and develop their individual interests and passions in a supportive environment, and receive high school credit. This course is designed to help exceptional students continue their personalized educational plans while participating in a self-directed learning experience. All participating students follow their own approved Project Proposal Form and develop their own Rubric which includes creating a final product for an authentic audience. This course is for identified TAG students only. Students may take this course up to 8 times and earn up to 8 credits during the four years of high school, as long as each project proposal is different. See Mrs. Kluender if you have questions.

**SCHOOL TO WORK PROGRAM: 22000, 22001, 22002 22009,**

Prerequisite: Application Required

GRADES 12

7 CREDITS

YEAR LONG

School to Work is an educational opportunity for DC-G seniors to explore what it takes to develop and maintain a rewarding career. School to Work is a class that will give you the ability to experience things that cannot be experienced in the classroom. Each student is placed into the business community by the coordinator. There you will develop a broad range of skills that can assist you in today's changing workplace. There are two components to the class: the first six weeks of the course are spent in the classroom, and the remainder of the year is spent on the job site. Internships can be paid or non-paid, depending on the business partner. At the completion of the yearlong course, each student will receive DMACC credits. Applicants are screened for admission. See Mr. Heitland for procedure if interested. **This class is offered as a concurrent credit class with DMACC's WBL110, WBL150, and ADM 936. Students who complete this course will receive 6 DMACC college credits.**