



DES MOINES PUBLIC SCHOOLS

COURSE CATALOG

2018 - 2019

2017-2018



Foreword

This handbook was designed as a guide for counselors on Des Moines Public Schools policies and procedures as well as a companion document to the student course catalog. As with any handbook, it is intended to be a common guide – not a regulatory manual. Our major focus is to counsel students as a support for their personal academic achievement. School Counselors have the professional skills, desire, and ability to help Des Moines Public Schools' students realize their dreams and reach their goals. This guide was developed to aid school counselors in what they do best – counsel students.

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Educational Philosophy

Vision

Becoming the model for urban education in the United States.

Mission Statement

The Des Moines Public Schools Exist So That Graduates Possess the Knowledge, Skills and Abilities to Be Successful at the Next Stage of Their Lives.

Student Expectations

Students demonstrate proficiency and understanding of a rigorous core curriculum:

- They demonstrate proficiency in reading, writing, speaking and listening
- They demonstrate proficiency in mathematics, including algebra and geometry
- They demonstrate financial and economic literacy
- They demonstrate an understanding of the value of fine and performing arts in society
- They demonstrate proficiency in technological and information literacy
- They demonstrate proficiency in science, including life, earth and physical science

Students possess the knowledge and skills to be self-directed and autonomous:

- They demonstrate critical thinking and problem solving skills
- They exercise sound reasoning in making complex choices
- They exhibit creative, innovative and entrepreneurial thinking
- They understand the attributes of physical and mental well-being

Students have world awareness:

- They learn from and work with individuals representing diverse cultures and religions in a spirit of mutual respect in school, work and community
- They understand the rights and obligations of citizenship at local, state, national, and global levels
- They are actively engaged in community life
- They will be exposed to languages and cultures of the world

District Contact Information

Counseling

Role/Content	Name	Extension
Secondary Counseling Specialist	Amy Abler	8314

Teaching and Learning

Role/Content	Name	Extension
Executive Director of Teaching and Learning	Noelle Tichy	7938
T & L Executive Assistant	Carla Miller	8170
T & L Executive Assistant	Gwen Abbington Robbins	8317
Secondary Math Curriculum Coordinator	Christi Donald	7875
K-12 Visual Art Curriculum Coordinator	Ben Heinen	
K-12 World Languages Curriculum Coordinator	Becca Lindahl	
Advanced Placement Coordinator	Amber Graeber	7947
Elementary Literacy Curriculum Coordinator	Liz Griesel	7906
International Baccalaureate (IB) Coordinator	Olivia Howe	7316
Elementary Math Curriculum Coordinator	Jenni Krieger	7892
Elementary Instructional Coordinator	Jamie O'Brien	8316
K-12 Science Curriculum Coordinator	Adam Puderbaugh	7335
K-12 Performing Arts Curriculum Coordinator	Kelly Kretschmer	7609
K-12 Physical Education and Health Curriculum Coordinator	Carlye Satterwhite	7241
Secondary Literacy Curriculum Coordinator	Jeremy Schwennen	7924
Career and Technical Education (CTE) Curriculum Coordinator	Connie Sievers	7654
K-12 Social Studies Curriculum Coordinator	Benjamin (BJ) VanVleet	7982
Director of ELL	Pablo Ortega	
Community & Bilingual Outreach Supervisor	Vinh Nguyen	7853
ELL Executive Assistant	Elizabeth Lopez	7691
Elementary ELL Coordinator	Cindra Porter	8349
Secondary ELL Coordinator	Cecilia McDonald	7810
Supervisor of Gifted and Talented Education	Ed Pilkington	7941
GT Education Administrative Assistant	Pat Myers	7930

Special Education

Role/Content	Name	Extension
Secondary Special Education Curriculum Facilitator	Ann Benzshawel	7902

Technology Support

Role/Content	Name	Extension
Technology Help Desk	General Technology Help Line	8161
Info System & Security, Research & Data Management	Margi Neve	

Data Systems Analyst, Research & Data Management	Kim Martorano	8505
District Registrar	Natalie Coffey	

Graduation Requirements and Planning

Required Credits for Graduation

For students in the Classes of 2017-2020, the following credits must be fulfilled to graduate and earn a diploma.

REQUIREMENTS	UNITS OF CREDIT
Social Studies REQUIRED: US History, US Government, Economics or Microeconomics, and 1.0 additional credit in history	3.0
English REQUIRED: English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English	4.0
Mathematics REQUIRED: Semester 1 and 2 of Algebra I (or higher level math course)	3.0
Science HIGHLY RECOMMENDED: Biology, Chemistry, Physics, Earth Science	3.0
Applied/Fine Arts	1.5
Physical Education REQUIRED: In compliance with Iowa law, students must be enrolled in physical education at least 1 semester each year while in high school, and must complete CPR training.	1.0
Electives	7.5
TOTAL	23

Post-Secondary Readiness Requirements

There are several paths that students can choose from for success after completing high school. The guide below can help students and their families have conversations with school counselors as they make decisions about their goals for after graduation and the choices they need to make in high school to reach those goals.

High School Diploma

English	English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English
Math	Semester 1 and 2 of Algebra I (or higher level math course), and 2.0 additional credits in Math.
Science	3.0 credits in Science.
Social Studies	US History, US Government, Economics or Microeconomics, and 1.0 additional credit in history
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.
Physical Education	At least one semester each year of high school, and must complete CPR training.

Career & Technical, Apprenticeship, and Industry Certification Programs

English	English I, II, and English III or AP Lang and Comp, and 1.0 additional credit in English
Math	Semester 1 and 2 of Algebra I (or higher level math course), and 2.0 additional credits in Math.
Science	3.0 credits in Science.
Social Studies	US History, US Government, Economics or Microeconomics, and 1.0 additional credit in history
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.
Physical Education	At least one semester each year of high school, and must complete CPR training.

Post-Secondary Readiness Requirements (cont.)

Regents Institutions (U of I, UNI, ISU)

English	Four years with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable.
Math	Four years, one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
Science	Three years, one in each year of high school. To be really prepared, take at least one year each of biology, chemistry, and physics.
Social Studies	Three years are essential, but four is better. Take at least one year each of U.S. history and world history. Additional courses in anthropology, economics, political sci., psychology, and sociology provide important understandings.
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.
Physical Education	At least one semester each year of high school, and must complete CPR training.

Highly Selective Colleges & Universities

English	Four years with an emphasis on the communication skills of writing, reading and listening, and the analysis and interpretation of literature, including AP credit. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech, newspaper, and yearbook will further develop essential competencies.
Math	Four years, one in each year of high school, including advanced math courses like calculus and statistics.
Science	Four years, one in each year of high school. To be really prepared, take at least one year each of biology, chemistry, and physics, and an AP Science course.
Social Studies	Four years, one in each year of high school. Take at least one year each of U.S. history and world history, and an AP Social Studies course. Additional courses in anthropology, economics, political sci., psychology, and sociology provide important understandings.
Applied/Fine Arts	1.5 credits in the Applied or Fine Arts.
World Languages	World Languages count toward the 7.5 required elective credits.

Physical Education	At least one semester each year of high school, and must complete CPR training.
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Ready-To-Graduate Course Planner

All students must complete a set of required courses in English, Social Sciences, Mathematics, Science, Applied/Fine Arts and Physical Education, plus elective credits. The planner below is designed to help students, families and counselors determine a plan of study with the goal of graduation.

		9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	4.0 credits	English I <input type="checkbox"/> completed	English II <input type="checkbox"/> completed	English III or AP Lang <input type="checkbox"/> completed	Choose from an additional English credit course. <input type="checkbox"/> completed
Math	3.0 credits	Algebra I <input type="checkbox"/> completed	Math Course: <input type="checkbox"/> completed	Math Course: <input type="checkbox"/> completed	Math Course (if less than 3.0 credits are earned) <input type="checkbox"/> completed
Science	3.0 credits	Science Course (Biology recommended): <input type="checkbox"/> completed	Science Course (Chemistry recommended): <input type="checkbox"/> completed	Science Course (Conceptual Physics or AP Physics recommended): <input type="checkbox"/> completed	Science Course (if less than 3.0 credits are earned): <input type="checkbox"/> completed
Social Studies	3.0 credits	20 th Cent. World History <input type="checkbox"/> completed	US History or SS Elective <input type="checkbox"/> completed	US History or Economics SS Elective or <input type="checkbox"/> completed	US Government or Economics <input type="checkbox"/> completed
Physical Education	1.0 credit	At least one semester each year: 9 th <input type="checkbox"/> 10 th <input type="checkbox"/> 11 th <input type="checkbox"/> 12 th <input type="checkbox"/> <input type="checkbox"/> completed CPR training			
Fine/Applied Arts	1.5 credits	Courses: <input type="checkbox"/> completed	Courses: <input type="checkbox"/> completed	Courses: <input type="checkbox"/> completed	Courses: <input type="checkbox"/> completed
Electives & 21st Century Requirements	7.5 credits	Financial Literacy Course: _____ <input type="checkbox"/> completed Health Literacy Course: _____ <input type="checkbox"/> completed Technology Literacy Course: _____ <input type="checkbox"/> completed Employability Skills Course: _____ <input type="checkbox"/> completed <i>Beginning with the class of 2021</i> Family Life/Consumer Sciences Course: _____ <input type="checkbox"/> completed Additional Electives to reach 7.5 credits:			

		_____ <input type="checkbox"/> completed

My AP (My Academic Planner) User Guide

1. **LOG** into portal account
 2. **CLICK** on Academic Planning
 3. **VERIFY** Academic plan has been assigned
 - a. If not, **STOP** and contact your counselor
 4. **SET** post grad plans and post grad location
 5. **CLICK** Next
 6. **ADD** courses to plan
 - a. **TYPE** course name or course number into the 'Search Course Catalog' dropdown
 - i. **CLICK** on course name to see detailed information (Description, credits, prerequisites, etc.)
 - ii. **CLICK** appropriate 'Add to Grade ##' button to add to plan or **CLICK** the X to close the pop-up window

OR

 - b. **CLICK** in the box listed under the credit type and grade. (Courses listed in light grey are missing a prerequisite on the plan. If added to your plan, the course will be listed in **RED** and you will not be able to save.)
 - i. **CHOOSE** from the list. Only courses with this credit type will be listed. (Detailed information is not available when adding courses in this manner.)

OR

 - ii. **TYPE** in the course number or name to find the course.
7. **VERIFY** credit requirements have been met for each credit type and grade level
 - a. Warnings are listed at the top of the page and in each section for each credit type.
 - b. If no warnings are listed, your plan is complete and ready for review with the counselor.
8. **CLICK** Save to keep the work you have done
 - a. You can save and come back at a later time.
9. If you see this message when reading the detailed information on a course: *This course cannot be selected by a student and must be assigned by a counselor.* you will need to contact your counselor and talk to them about adding this course to your plan.

Course Listings

The courses listed in this catalog represent the entire selection offered across the district as a whole. Not all courses are available at every high school building. A variety of factors, including student interest, staffing, and space & equipment, determine which courses are offered and taught in which buildings. Students and families are encouraged to work with their school counselor to determine their academic plans while considering availability of courses in their home high school and their eligibility for educational programs. The course catalog is updated annually. The most current version of this document can be accessed on the district website at www.dmschools.org.

English and Language Arts

To prepare our students for 21st century literacy skills to be used in post-secondary education and the workplace, Des Moines Public Schools provides a guaranteed and viable curriculum at the appropriate developmental level.

As our students grow and develop, we provide the opportunities to grapple with texts of exceptional craft and thought across a wide range of genres, cultures, and time periods. Our teachers believe these works offer insight into the human condition and can be a model for our students' thinking, writing, and problem-solving. We value wide and deep reading of both literature and non-fiction texts.

Our goal is to steadily increase the complexity and sophistication of the content and the structure of our analysis to grow our students into critical readers and writers.

Curriculum Coordinator:

Jeremy Schwennen
jeremiah.schwennen@dmschools.org
ext.7924

English I S1 (LA103)

PREREQUISITE: NONE | Offered: Fall | .5 credit

English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing and character analysis.

English I S2 (LA104)

PREREQUISITE: LA103 | Offered: Spring | .5 credit

English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing and character analysis.

Intro to Sports Lit (LA116) *NEW for 17-18*

PREREQUISITE: NONE | Offered: Fall | .5 credit

In Intro to Sports Lit, students will explore both classic and contemporary sports writing. Classes include guest speakers, group projects, discussion, writing sports-related blogs, documentaries, interviews, creative writing, and research-based assignments. Student will be required to focus not just on sports but issues that surround sports as well – these topics include race, politics, class, and current issues. Success in this course will require significant time devoted to reading and writing. For those that find the course rewarding, other Sports Lit courses exist in our course offerings.

Power English S1 (LA121)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Power English supports students in developing essential reading, writing, vocabulary, and analysis skills. This course, when coupled with a comprehensive English course, helps students fill in gaps in skills to secure success in high school English coursework.

Power English S2 (LA122)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Power English supports students in developing essential reading, writing, vocabulary, and analysis skills. This course, when coupled with a comprehensive English course, helps students fill in gaps in skills to secure success in high school English coursework.

Power English S1 (0.25) (LA123)

PREREQUISITE: NONE | Offered: Spring | .25 Credit

Power English supports students in developing essential reading, writing, vocabulary, and analysis skills. This course, when coupled with a comprehensive English course, helps students fill in gaps in skills to secure success in high school English coursework.

Power English S2 (0.25) (LA124)

PREREQUISITE: NONE | Offered: Spring | .25 Credit

Power English supports students in developing essential reading, writing, vocabulary, and analysis skills. This course, when coupled with a comprehensive English course, helps students fill in gaps in skills to secure success in high school English coursework.

Intro to Debate (LA125)

PREREQUISITE: NONE | Offered: Both | .5 credit

Students will learn to recognize and utilize logic, organization, critical thinking, public speaking, evaluation and research. Students will investigate current events/topics, participate in presentations, defend both sides of issues, use evidence effectively, evaluate sources and speeches, and apply debate techniques effectively.

Intro to Creative Writing (LA133) *NEW for 17-18*

CO-REQUISITE: NONE | Offered: Spring | Credit: .5

Intro to Creative Writing is an exploratory course for those who have an interest in writing. The goal is to achieve a greater appreciation of literature by creating one's own fiction and by reading and responding to others' work while attending to structure and style. Students will be encouraged to select their own topics with the support and guidance of the instructor. For those that find the course rewarding, other Creative Writing courses exist in our course offerings.

English I Extension S1 (LA139)

CO-REQUISITE: English I | Offered: Fall | Credit: .5

English I Extension is a course designed to give students access to more challenging texts and writing tasks. This course is for students who desire additional challenge in their English coursework and for those who intend to go on to AP or dual-credit English courses in the future. Any student interested in challenging themselves as a reader or a writer is welcome in English I Extension.

English I Extension S2 (LA140)

CO-REQUISITE: English I | Offered: Spring | Credit: .5

English I Extension is a course designed to give students access to more challenging texts and writing tasks. This course is for students who desire additional challenge in their English coursework and for those who intend to go on to AP or dual-credit English courses in the future. Any student interested in challenging themselves as a reader or a writer is welcome in English I Extension.

Modern Expression (LA141)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

This one-semester course will focus on issues and topics relevant to modern life. Students will be asked to question the way they experience the world around them through text, film, art, and so forth. Various activities surrounding such works will lead to direct, personal connections with the issues covered. Through personal, analytical, and argumentative discussion and writing, students will increase their ability to think and write critically about the world around them.

Intro to Spoken Word (LA151) *NEW for 17-18*

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Spoken word poetry continues to grow in popularity in the age of social media, social justice education, and art as activism. Over the past six years, Movement 515, the DMPS spoken word writing and performance program within RunDSM, has been incredibly successful in establishing safe and brave spaces for students to positively self-express while simultaneously cultivating contemporary school cultures and climates. As a result, RunDSM believes that even more youth and schools would be positively impacted if access and opportunity to the art form was available during the school day as an elective course for study. The goal of the course is for students to dig deeper into readings and works of others with the objective of enhancing their own writing, performance, and artistic techniques of self-expression.

English II S1 (LA205)

PREREQUISITE: NONE | Offered: Fall | .5 credit

English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication.

English II S2 (LA206)

PREREQUISITE: NONE | Offered: Spring | .5 credit

English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication.

Journalism 1 (LA213)

PREREQUISITE: LA105 | Offered: Fall | .5 credit

Journalism allows students to explore the fundamental concepts behind the communications industry, including print, broadcast and advertising and the Internet. Students will study history, writing, editing, law and the packaging process, as well as obtain the understanding of deadlines and interviewing through practical application. Prerequisite for newspaper and yearbook practicum.

Intro to Television Broadcast (LA219)

PREREQUISITE: LA315 or LA213 | Offered: Fall or Spring | .5 credit

This course provides students instruction and opportunity to continue developing journalistic skills in the medium of television broadcast. Students will experience interviewing, filming b-roll, editing and producing video news, feature, and opinion packages. Students will collaborate on stories with school newspaper and yearbook staff. Students will continue to build on their knowledge of press law that affects them as student journalists and the deadline process in which all publications operate. Students will also continue to build their skillset in news judgment, interviewing, editing, headline/caption writing, and visual storytelling. Students will be held to set deadlines and will work with numerous computer programs that include Adobe Photoshop and Adobe Premiere.

Competitive Debate S1 (LA225)

PREREQUISITE: LA126 | Offered: Fall | .5 credit

Students will learn to recognize and utilize logic, organization, critical thinking, public speaking, evaluation and research. Students will investigate current events/topics, participate in presentations, defend both sides of issues, use evidence effectively, evaluate sources and speeches, and apply debate techniques effectively.

Competitive Debate S2 (LA226)

PREREQUISITE: LA225 | Offered: Spring | .5 credit

Students will learn to recognize and utilize logic, organization, critical thinking, public speaking, evaluation and research. Students will investigate current events/topics, participate in presentations, defend both sides of issues, use evidence effectively, evaluate sources and speeches, and apply debate techniques effectively.

Speech (LA227)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

This course emphasizes critical thinking and effective communication through a variety of approaches, including public speaking and interpersonal, relational, intercultural, and nonverbal communication. Students analyze a range of verbal communications, from daily interactions and speeches by public officials to texts distributed through the mass media, and apply their analyses to practice and improve their own verbal communication styles and techniques.

English II Extension S1 (LA239)

CO-REQUISITE: English II | Offered: Fall | Credit: .5

English II Extension is a course designed to give students access to more challenging texts and writing tasks. This course is for students who desire additional challenge in their English coursework and for those who intend to go on to AP or dual-credit English courses in the future. Any student interested in challenging themselves as a reader or a writer is welcome in English II Extension.

English II Extension S2 (LA240)

CO-REQUISITE: English I | Offered: Spring | Credit: .5

English II Extension is a course designed to give students access to more challenging texts and writing tasks. This course is for students who desire additional challenge in their English coursework and for those who intend to go on to AP or dual-credit English courses in the future. Any student interested in challenging themselves as a reader or a writer is welcome in English II Extension.

Graphic Novels (LA241)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Students will read literary works that have been constructed or adapted in a graphic novel format, enabling deeper analysis of the text involved. This course will be a collaborative learning community in which the students will explore the graphic novel medium as a mode of communicating stories, using the various texts as a way to enhance, practice, and master traditional and new literacies. Graphic novels are a rich and varied form of literature and students will analyze the structure, research the history and growth of the popular culture phenomenon of graphic novels, and look closely at the effects created in sequential art narrative.

Intro to Science Fiction (LA268) NEW for 17-18

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Intro to Science Fiction is the exploration of literature and media that examine the human condition through elements of the unreal. Ranging in scope from high fantasy to complex science fiction and contemporary tales of superheroes, Science Fiction tackles the entire field of Speculative Fiction and breaks it down for students to enjoy, savor, and create. Success in this course will require significant time devoted to reading and writing. For those that find the course rewarding, other Sci Fi courses exist in our course offerings.

Creative Writing 1 (LA303)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Creative Writing is a valuable course for those who have an interest in writing. The goal is to achieve a greater appreciation of literature by creating one's own fiction and by reading and responding to others' work while attending to structure and style. Students will be encouraged to select their own topics with the support and guidance of the instructor.

English III S1 (LA305)

PREREQUISITE: NONE | Offered: Fall | .5 credit

English III builds on the structures of reading and writing, using a variety of materials representing different literary forms and authors. An emphasis on American literature through a global perspective will support critical analysis of author's style, character motivation, point of view, mood, and tone. Composition will focus on synthesizing new understandings

with background knowledge and gain insight into the author's craft while adhering to conventions generally established in conventions, usage, syntax, and style.

English III S2 (LA306)

PREREQUISITE: NONE | Offered: Spring | .5 credit

English III builds on the structures of reading and writing, using a variety of materials representing different literary forms and authors. An emphasis on American literature through a global perspective will support critical analysis of author's style, character motivation, point of view, mood, and tone. Composition will focus on synthesizing new understandings with background knowledge and gain insight into the author's craft while adhering to conventions generally established in conventions, usage, syntax, and style.

Mass Comm / Mass Media (LA315)

PREREQUISITE: LA105, LA207 | Offered: Both | .5 credit

Studies in mass media and communications.

MIS317 / MIS318 Elective English Credit

COREQUISITE: Urban Leadership at Central Campus

Urban Leadership is committed to empowering students on their journey to becoming community-based activists and entrepreneurs. Based in the principle of hip-hop culture, students engage in a in-depth study of social movements shaping history and urban settings across the United States. Through the use of various mediums such as the written and spoken word, performance-based literacy, urban arts. And youth + community summits, and internships, students are given a platform to become the leaders of today.

Newspaper S1 (LA321)

PREREQUISITE: LA221 | Offered: Fall | .5 credit

Repeatable. Newspaper is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism. Students will write, edit, package, produce and distribute the school's newspaper. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, people-skill building, and business skills.

Newspaper S2 (LA322)

PREREQUISITE: LA222 | Offered: Spring | .5 credit

Newspaper is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism. Students will write, edit, package, produce and distribute the school's newspaper. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, people-skill building, and business skills.

Yearbook S1 (LA323)

PREREQUISITE: LA223 | Offered: Fall | .5 credit

Yearbook is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism in a real-world setting. Students will write, edit, package, produce and distribute the school's yearbook. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, editing, teamwork and business skills.

Yearbook S2 (LA324)

PREREQUISITE: LA224 | Offered: Spring | .5 credit

Yearbook is a hands-on laboratory course that allows students to apply the fundamental theories explored through journalism in a real-world setting. Students will write, edit, package, produce and distribute the school's yearbook. Concepts emphasized include leadership, prioritizing, deadline meeting, interviewing, editing, teamwork and business skills.

Writing Workshop (LA351) NEW for 17-18

PREREQUISITE: | Offered: Fall or Spring | .5 credit

Teachers will provide students with high quality feedback on developing drafts of papers, suggest writing strategies, diagnose writing problems, ask questions, review misunderstood or missing information, listen to writers, and help them gain a perspective on their writing. Since every student is different, the teaching and learning will be personalized in multiple ways. Learning to write involves practice, risk taking, and revising. Writing labs are places where students are encouraged to try and to experiment. Students will engage in trial runs of ideas and approaches, to fail and move on to another attempt, while always receiving encouragement for their efforts. The teacher's role in the writing lab is not to lecture at students or to repeat information available from the regular classroom experience. Instead the teacher may offer weekly mini-lessons and will collaborate with students individually and in small groups to facilitate the process of student writers finding their own answers. Mini-lessons could include, but are not limited to: vocabulary, grammar, punctuation, citation, formatting, organization, thesis writing, etc. To accomplish this, teachers may engage writers in discussions of their writing topics so that students can develop their ideas and practice the phrasing and vocabulary of the kinds of writing they will be producing such as arguments, rhetorical analysis, and synthesis essays. Students should be concurrently enrolled in AP English Language & Composition, AP English Literature & Composition, and AP US History.

English IV S1 (LA403)

PREREQUISITE: NONE | Offered: Fall | .5 credit

English IV (formerly known as World Literature) includes a survey of world literature studied in a thematic approach to critically evaluate information based on relevancy, objectivity, and reliability. Students will write several compositions using expository and argumentative techniques, including a research project. This project will include an articulated research question or thesis statement, and incorporate findings while adhering to a consistent format for documentation.

English IV S2 (LA404)

PREREQUISITE: NONE | Offered: Spring | .5 credit

English IV (formerly known as World Literature) includes a survey of world literature studied in a thematic approach to critically evaluate information based on relevancy, objectivity, and reliability. Students will write several compositions using expository and argumentative techniques, including a research project. This project will include an articulated research question or thesis statement, and incorporate findings while adhering to a consistent format for documentation.

Writing 12 (LA409)

PREREQUISITE: LA308 | Offered: Fall or Spring | .5 credit

This composition course stresses practice in writing through daily writing pieces as well as several compositions throughout the semester. Writing skills include supporting ideas with valid reasons and evidence, effectively organizing written pieces, connecting ideas from multiple sources, and writing about literature and informational texts.

Creative Writing 2 (LA411)

PREREQUISITE: LA303 | Offered: Fall or Spring | .5 credit

Creative Writing 2 is a valuable course for those who have an interest in writing. The goal is to achieve a greater appreciation of literature by creating one's own fiction and by reading and responding to others' work while attending to structure and style. Students will be encouraged to select their own topics with the support and guidance of the instructor.

Lit & Comp A: Contemporary Lit (LA415)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Literature and Composition: Contemporary explores issues presented in modern fiction and nonfiction and emphasizes discussion and writing about materials read. Success in this course will require significant time devoted to reading and writing.

Lit & Comp B: Sports Lit (LA416)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

In Literature and Composition: Sports Literature, students will examine both classic and contemporary sports writing. Classes include guest speakers, group projects, discussion, writing sports-related blogs, documentaries, interviews, creative writing, and research-based assignments. Student will be required to focus not just on sports but issues that surround sports as well -- these topics include race, politics, class, and current issues. Success in this course will require significant time devoted to reading and writing.

Lit & Comp C: Multicultural Lit (LA417)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

In Literature and Composition: Multi-Cultural Literature, students will examine literary and informational texts by authors from all over the world and a variety of cultures. The literature represents many different time periods and broad spectrum of world views. Classes include guest speakers, group projects, discussion, film, documentaries, and current issues. Students will be required to participate in literature circles and small group book clubs. Major student assessments will include narrative writing, research papers, literary analyses, interviews, research application, and persuasive writing. Success in this course will require significant time devoted to reading and writing.

Lit & Comp D: Science Fiction (LA418)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Literature and Composition: Science Fiction is the study of literature and media that explore the human condition through elements of the unreal. Ranging in scope from high fantasy to complex science fiction and contemporary tales of superheroes, Science Fiction tackles the entire field of Speculative Fiction and breaks it down for students to enjoy, savor, and create. Success in this course will require significant time devoted to reading and writing.

Lit & Comp E: Women and Lit (LA419)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

In Literature and Composition: Women and Literature students examine literary and informational texts by and about women; the emphasis is on works not read in other English classes. The literature represents several centuries and cultures. Classes include group projects, discussion, film, documentaries, and current issues. Each student keeps a journal, and the class has its own library. Major student assessments will include narrative writing, research papers, literary analyses, interviews, ethnographic research, and persuasive writing. Success in this course will require significant time devoted to reading and writing.

Lit & Comp F: Shakespeare (LA420)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Literature and Composition: Shakespeare begins with a study of the life of William Shakespeare and the culture of Elizabethan England. Students will read a selection of Shakespeare's sonnets and at least three of his plays, including one tragedy and one comedy. An important objective is to understand the plays in the context of his theater and time. Students will also learn to understand Shakespeare's language, to interpret his metaphors, and to recognize famous quotations from his works. Success in this course will require significant time devoted to reading and writing.

Lit & Comp G: Expository Text (LA421)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Expository Text is a course focused on the examination of non-fiction text. Analysis and writing is applied to a wide variety of academic and non-literary texts, with an emphasis on close-reading for understanding. Students engaged in this course will be called upon to read and write regularly and will emerge with a wide range of critical reading and analysis skills for use in college and career.

Fiction Writing (LA427)

PREREQUISITE: LA206 | Offered: Fall | .5 credit

Fiction Writing is a class for those interested in preparing for success in College Creative Writing. This course will focus on the processes of writing when creating fiction and poetry by applying the elements of both those genres into the practice of composition. Students will study the elements of poetry and fiction through samples of professional writers and their peers and apply these techniques when composing their own pieces. The class will prepare students for developing a writing portfolio in which students will keep their writings along with analyses of where these ideas came from and some of the techniques used when composing.

Communication for Leadership (LA433)

PREREQUISITE: None | Offered: Fall or Spring | .5 credit

This class teaches students how to be supportive team members, independent thinkers, and leaders. Through the use of the skills learned in improvisation, students develop the ability to think quickly, make strong choices, adapt to unique situations, and take initiative. Applying the tenants of improvisation, this class teaches leadership, group-think, and acceptance. Those who have learned improvisation learn team-work, communication and problem-solving skills, and how to be creative. In addition to improvisation and leadership, students will also practice creative writing and self-reflection to become leaders with skills desired by today's colleges and businesses.

***AP English Language & Composition S1 (LA501)**

PREREQUISITE: LA206 | Offered: Fall | .5 credit

AP Language and Composition enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

***AP English Language & Composition S2 (LA502)**

PREREQUISITE: LA501 | Offered: Spring | .5 credit

AP Language and Composition enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

***AP Literature & Composition S1 (LA503)**

PREREQUISITE: LA206 | Offered: Fall | .5 credit

AP English Literature and Composition is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***AP Literature & Composition S2 (LA504)**

PREREQUISITE: LA503 | Offered: Spring | .5 credit

AP English Literature and Composition is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***College Speech (LA521)**

PREREQUISITE: LA206 | Offered: Fall, Spring | .5 Credit

This dual-credit course emphasizes critical thinking and effective communication through a variety of approaches, including public speaking and interpersonal, relational, intercultural, and nonverbal communication. Students analyze a range of verbal communications, from daily interactions and speeches by public officials to texts distributed through the mass media, and apply their analyses to practice and improve their own verbal communication styles and techniques.

***College Creative Writing (LA526)**

PREREQUISITE: LA206 | Offered: Both | .5 credit

College Creative Writing is a dual-credit class. Though it is taken at DMPS High Schools and students receive English credit, DMACC competencies for ENG 221 will be assessed for college credit; in essence, this is a collegiate class. This course will focus on the processes of writing when creating fiction and poetry by applying the elements of both those genres into the practice of composition. Students will study the elements of poetry and fiction through samples of professional writers and their peers and apply these techniques when composing their own pieces. The class will culminate in a writing portfolio in which students will keep their writings along with analyses of where these ideas came from and some of the techniques used when composing.

College Tech Communication S1 (LA527)

COREQUISITE: Multiple Central Campus Programs | Offered: Fall | .5 credit

***College Tech Communication S2 (LA528)**

COREQUISITE: Multiple Central Campus Programs | Offered: Fall | .5 credit

***College AP Literature & Composition S1 (LA529)**

PREREQUISITE: LA206 | Offered: Fall | .5 credit

AP English Literature and Composition with college credit is a one-year high school course equivalent to two semesters of college course work designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***College AP Literature & Composition S2 (LA530)**

PREREQUISITE: LA529 | Offered: Spring | .5 credit

AP English Literature and Composition with college credit is a one-year high school course equivalent to two semesters of college course work designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The composition instruction ranges from basic principles to more refined and advanced matters of style, requiring several compositions ranging from the imaginative and personal to the formal and detached. Completion of the AP exam is an expectation for all AP courses.

***College AP English Language & Composition S1 (LA531)**

PREREQUISITE: LA206 | Offered: Fall | .5 Credit

AP Language and Composition is a dual-credit course that enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

***College AP English Language & Composition S2 (LA532)**

PREREQUISITE: LA531 | Offered: Spring | .5 Credit

AP Language and Composition is a dual-credit course that enables a student to be an effective writer at the postsecondary level. Students read, analyze, and practice a variety of discursive prose. Through the organized study of language skills and the structures of sentences, paragraphs, and expository patterns, students analyze and implement the resources of the English language. Completion of the AP exam is an expectation for all AP courses.

College Composition I S1 (LA536)

PREREQUISITE: LA206 | Offered: Fall | .5 credit

This course introduces students to college writing. Students will construct and revise a series of writings, primarily expository but not excluding persuasive. Students will practice effective reading and research techniques that may

include library and computer-based research skills. The literature component concentrates on a variety of literature from around the world. Students study major writers and selections that are classics. In addition to the selections found in the class text, students may be expected to read supplementary works as an individual assignment and as a class assignment.

***College Composition I S2 (LA537)**

PREREQUISITE: LA536 | Offered: Spring | .5 credit

This course introduces students to college writing. Students will construct and revise a series of writings, primarily expository but not excluding persuasive. Students will practice effective reading and research techniques that may include library and computer-based research skills. The literature component concentrates on a variety of literature from around the world. Students study major writers and selections that are classics. In addition to the selections found in the class text, students may be expected to read supplementary works as an individual assignment and as a class assignment.

ELL English Course Alignments

ROOT COURSE NUMBER	ALIGNED COURSE NUMBER
English I S1 (LA103)	LA929
English I S2 (LA104)	LA930
English II S1 (LA205)	LA931
English II S2 (LA206)	LA932
English III S1 (LA305)	LA933
English III S2 (LA306)	LA934
English IV S1 (LA403)	LA983
English IV S2 (LA404)	LA4040

Mathematics

Mathematics is a tool we use to understand and interpret our world. In our increasingly technological economy, those who understand and know how to apply mathematics have significantly enhanced opportunities in continuing education and later in life. The key to opening the door to these opportunities is a deep understanding of important mathematical concepts and procedures.

The goal of the Des Moines Public Schools K-12 mathematics program is for all students to achieve mathematical proficiency by developing an understanding of math concepts and a fluency in skill procedures. Students who understand a concept can identify examples and non-examples; describe the idea with words, symbols, tables, graphs, and models; and apply the concept in problem-solving situations. Procedural proficiency includes recall of basic facts (addition, multiplication, subtraction, and division) and the use of algorithms – step-by-step mathematical procedures – to produce a solution.

The end result is the ability to think and reason mathematically and use mathematics to solve problems in authentic contexts.

Curriculum Coordinator:

Christi Donald
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ext.7875

Algebra I S1 (MTH111)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Algebra is the foundation of higher mathematics. Students will explore functional relationships, use algebraic systems and properties, represent patterns of change, and apply equations and inequalities to solve the problems. Special emphasis is placed on application of skills and concepts through problem solving.

Algebra I S2 (MTH112)

PREREQUISITE: MTH111 Algebra I S1 | Offered: Spring | .5 credit

Algebra is the foundation of higher mathematics. Students will explore functional relationships, use algebraic systems and properties, represent patterns of change, and apply equations and inequalities to solve problems. Special emphasis is placed on application of skills and concepts through problem solving.

Power Algebra S1 (MTH121)

PREREQUISITE: NONE | CO-REQUISITE: MTH111 Algebra I S1 | Offered: Fall | .5 credit

This supplemental course is taken concurrently with Algebra I. Computer software and small-group instruction provide additional support in learning algebra concepts.

Power Algebra S2 (MTH122)

PREREQUISITE: MTH121 Power Algebra S1 CO-REQUISITE: MTH112 Algebra I S2

Offered: Spring | .5 credit

This supplemental course is taken concurrently with Algebra I. Computer software and small-group instruction provide additional support in learning algebra concepts.

Power Algebra S1 (0.25) (MTH123)

PREREQUISITE: NONE | CO-REQUISITE: MTH111 Algebra I S1 | Offered: Fall | 0.25 credit

This supplemental course is taken concurrently with Algebra I. Computer software and small-group instruction provide additional support in learning algebra concepts.

Power Algebra S2 (0.25) (MTH124)

PREREQUISITE: MTH123 Power Algebra S1 CO-REQUISITE: MTH112 Algebra I S2

Offered: Spring | 0.25 credit

This supplemental course is taken concurrently with Algebra I. Computer software and small-group instruction provide additional support in learning algebra concepts.

Geometry S1 (MTH211)

PREREQUISITE: MTH111/112 Algebra I S1/S2 | Offered: Fall | .5 credit

Geometry is the study of shape. Students will develop deductive reasoning skills as they consider properties of and relationships among shapes, location of shapes, transformation of shapes, and special shapes such as circles and triangles. Technology is used to enhance geometric experimentation and situations.

Geometry S2 (MTH212)

PREREQUISITE: MTH211 Geometry S1 | Offered: Spring | .5 credit

Geometry is the study of shape. Students will develop deductive reasoning skills as they consider properties of and relationships among shapes, location of shapes, transformation of shapes, and special shapes such as circles and triangles. Technology is used to enhance geometric experimentation and situations.

Alg and Geom Fndtns S1 (MTH217)

PREREQUISITE: MTH111/112 Algebra I S1/S2 | CO-REQUISITE: MTH211 Geometry S1

Offered: Fall | .5 credit

This supplemental course is taken concurrently with Geometry. Computer software and small-group instruction provide additional support in learning algebra and geometry concepts.

Alg and Geom Fndtns S2 (MTH218)

PREREQUISITE: MTH217 Alg and Geom Fndtns S1 CO-REQUISITE: MTH212 Geometry S2

Offered: Spring | .5 credit

This supplemental course is taken concurrently with Geometry. Computer software and small-group instruction provide additional support in learning algebra and geometry concepts.

Algebra II S1 (MTH311)

PREREQUISITE: MTH111/112 Algebra I S1/S2 | Offered: Fall | .5 credit

This course extends basic algebraic skills developed in Algebra I. Students study complex numbers, explore sequences and series, work with logarithmic functions, and investigate trigonometric functions.

Algebra II S2 (MTH312)

PREREQUISITE: MTH311 Algebra II S1 | Offered: Spring | .5 credit

This course extends basic algebraic skills developed in Algebra I. Students study complex numbers, explore sequences and series, work with logarithmic functions, and investigate trigonometric functions.

Introduction to Statistics (MTH321)

PREREQUISITES: MTH111/112 Algebra I S1/S2 and MTH211/212 Geometry S1/S2

Offered: Both | 0.5 credit

Introduction to Statistics is a one-semester class designed primarily for seniors. Topics of study include but are not limited to methods of data collections, various means of organizing and describing data, interpreting charts and graphs, and probability. Students will be using real-life data as part of their learning. Students are expected to work outside of class gathering data for in-class projects and will be expected to read articles during class as needed.

***Pre-Calculus S1 (MTH401)**

PREREQUISITE: MTH311/312 Algebra II S1/S2 | Offered: Fall | .5 credit

Pre-Calculus is the post-algebra class to bridge students to Calculus topics. Students explore complex numbers, logarithmic functions, trigonometry, combinatorics, polar coordinates, and beginning calculus concepts.

***Pre-Calculus S2 (MTH402)**

PREREQUISITE: MTH401 Pre-Calculus S1 | Offered: Spring | .5 credit

Pre-Calculus is the post-algebra class to bridge students to Calculus topics. Students explore complex numbers, logarithmic functions, trigonometry, combinatorics, polar coordinates, and beginning calculus concepts.

***Calculus S1 (MTH409)**

PREREQUISITE: MTH402 | Offered: Fall | .5 credit

Calculus is designed for 5th year mathematics students who will be continuing their education in areas of math, science, engineering, business, and medicine. This rigorous course examines analytic geometry, limits and continuity, derivatives, and differential calculus. Use of the graphing calculator is an integral part of this course.

***Calculus S2 (MTH410)**

PREREQUISITE: MTH409 | Offered: Spring | .5 credit

Calculus is designed for 5th year mathematics students who will be continuing their education in areas of math, science, engineering, business, and medicine. This rigorous course examines analytic geometry, limits and continuity, derivatives, and differential calculus. Use of the graphing calculator is an integral part of this course

Intro to Trigonometry (MTH413)

PREREQUISITE: MTH111/112 Algebra I S1/S2 and MTH211/212 S1/S2

Offered: Both | 0.5 credit

By the end of the course, students will have experienced critical thinking and enhanced their problem solving skills. The students will be expected to recognize patterns and develop and evaluate plausible solutions to real world situations. Topics include: the unit circle, trigonometric functions (definitions, graphs and inverses), right triangles, oblique triangles, trigonometric identities, trigonometric equations, the trigonometric form of complex numbers, two-dimensional vectors, polar coordinates, and parametric equations. A scientific calculator is required.

***AP Calculus AB S1 (MTH501)**

PREREQUISITE: MTH402 | Offered: Fall | .5 credit

The AP Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course and its use is required on the advanced placement test. Completion of the AP exam is an expectation for all AP courses.

***AP Calculus AB S2 (MTH502)**

PREREQUISITE: MTH501 AP Calculus S1 | Offered: Spring | .5 credit

The AP Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course and its use is required on the advanced placement test. Completion of the AP exam is an expectation for all AP courses.

***AP Calculus BC S1 (MTH503A)**

PREREQUISITE: MTH402 | Offered: Fall | .5 credit

The AP Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course and its use is required on the advanced placement test. Completion of the AP exam is an expectation for all AP courses.

***AP Calculus BC S2 (MTH504A)**

PREREQUISITE: MTH402 | Offered: Spring | .5 credit

The AP Calculus course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Course study includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course and its use is required on the advanced placement test. Completion of the AP exam is an expectation for all AP courses.

***AP Calculus S1 (MTH525)**

PREREQUISITE: MTH402 | Offered: Fall | .5 credit

This rigorous course includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course.

***AP College Calculus S2 (MTH526)**

PREREQUISITE: MTH525 | Offered: Spring | .5 credit

This rigorous course includes properties of functions, limits, differential calculus, and integral calculus. Use of the graphing calculator is an integral part of this course.

***AP Statistics S1 (MTH551)**

PREREQUISITE: C or higher in MTH311/312 & Algebra II S1/S2 | Offered: Fall | .5 credit

The AP statistics course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Students will plan and conduct a study, explore random phenomena using probability and simulation, estimate population parameters and test hypotheses. Completion of the AP exam is an expectation for all AP courses.

***AP Statistics S2 (MTH552)**

PREREQUISITE: AP Statistics S1 | Offered: Fall | .5 credit

The AP statistics course follows the Advanced Placement syllabus and prepares students for the AP test in the spring. Students will plan and conduct a study, explore random phenomena using probability and simulation, estimate population parameters and test hypotheses. Completion of the AP exam is an expectation for all AP courses.

College Technical Math S1 (MTH569)

COREQUISITE: MULTIPLE CENTRAL CAMPUS PROGRAMS

This course is an application of the mathematics involved with many Central Campus programs. Topics covered include fundamental operations with whole numbers, fractions, decimals, and signed numbers; percents; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements; and the interpretation of graphs and charts. This math class is integrated to the specific mathematical calculations of each program of study.

***College Technical Math S2 (MTH570)**

PREREQUISITE: MTH569 College Technical Math S1

This course is an application of the mathematics involved with many Central Campus programs. Topics covered include fundamental operations with whole numbers, fractions, decimals, and signed numbers; percents; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements; and the interpretation of graphs and charts. This math class is integrated to the specific mathematical calculations of each program of study.

ELL/Special Education Math Course Alignments

COURSE NUMBER	COURSE TITLE
MTH921/MTH922	ELL Math I
MTH923/MTH924	ELL Math II
MTH925/MTH926	ELL Math III

MTH943/MTH944	ELL Algebra I S1/S2
MTH9515/ MTH9525	Integrated Math 9 S1/S2
MTH9353/MTH9545	Integrated Math 10 S1/S2
MTH9555/MTH9565	Integrated Math 11 S1/S2
MTH9575/MTH9585	Integrated Math 12 S1/S2

Social Studies

The interconnected nature of the world makes in depth, relevant social studies instruction essential for all students. Our goal is to provide all students with academic and authentic learning opportunities that spark interest in the social studies and enhance students' abilities to understand the global world.

Des Moines Public Schools offers a comprehensive and well-rounded approach to learning in the social studies with courses in areas such as history, government, economics, and contemporary studies. All of our courses are aligned to standards from both the state and national levels.

Our goal is to graduate students who are informed, active, and responsible citizens in their communities – from the school community to the neighborhood, city, state, nation and world.

Curriculum Coordinator

Benjamin VanVleet
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Current Issues (SOC101)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

IEP Team Decision *Please note: This course can only be taken once during a high school career. Current Issues is a one-semester social studies elective course designed for students who have a strong interest in both domestic and global events. Students will examine various issues such as rights, elections and media, and government. Various topics will be explored in-depth in order to gain an understanding of the historical context of the issue and the attempts made to resolve the issue.

20th Cent World Hist (WH1) (SOC111)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This unique 20th Century World History course is a change not only in what we teach, but in how we teach history. This course is a focused study of the 20th Century for all ninth-graders. 20th Century World History focuses on key issues, events and people of the 20th Century and helps students build the connections into the past to understand why things came to be that way. In no way will this course simply be a chronological march through time, but instead an in-depth look at historical themes from a global perspective. The course will include instructional units on imperialism, the world wars, the post-colonial world, conflict and genocide. The course concludes with a synthesis project in which students have guided choice to investigate a historical topic from the 20th Century. The 20th Century World History course provides students with an opportunity to develop skills such as, but not limited to, interpreting primary sources, developing academic vocabulary related to topics and eras studied, making connections between history and geography, establishing an historical context for topics, people and events studied by organizing information gathered from secondary sources, connecting historical topics, people and events to the present day, and extending their learning through additional resources provided by instructor.

20th Cent World Hist (WH2) (SOC112)

PREREQUISITE: SOC111 | Offered: Spring | .5 credit

This unique 20th Century World History course is a change not only in what we teach, but in how we teach history. This course is a focused study of the 20th Century for all ninth-graders. 20th Century World History focuses on key issues, events and people of the 20th Century and helps students build the connections into the past to understand why things came to be that way. In no way will this course simply be a chronological march through time, but instead an in-depth look at historical themes from a global perspective. The course will include instructional units on imperialism, the world wars, the post-colonial world, conflict and genocide. The course concludes with a synthesis project in which students have guided choice to investigate a historical topic from the 20th Century. The 20th Century World History course provides students with an opportunity to develop skills such as, but not limited to, interpreting primary sources, developing academic vocabulary related to topics and eras studied, making connections between history and geography, establishing an historical context for topics, people and events studied by organizing information gathered from secondary sources, connecting historical topics, people and events to the present day, and extending their learning through additional resources provided by instructor.

History's Mysteries (SOC121)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The purpose of History's Mysteries is to develop a greater understanding of how different groups of historical peoples dealt with the challenges that they faced. The course will focus on the political, economic, religious, social and cultural institutions that formed in different historical civilizations and empires across the globe. Students will have an opportunity to select an area of study and analyze historical patterns, change, and continuity. The History's Mysteries course is

designed to develop the skills of studying, document analysis, discussion, critical thinking, and writing. These skills are essential for success in 20th Century World History and Advanced Placement courses in the Social Studies.

US History S1 (SOC201)

PREREQUISITE: NONE | Offered: Fall | .5 credit

The United States History course provides students with the analytical skills and factual knowledge to deal critically with the problems and materials in our nation's history. Instructional units invite students to travel from the events leading to the Revolutionary War through the present day. Students learn to assess historical materials, their relevance to a given problem, reliability, and importance and to weigh the evidence and interpretations presented in historical scholarship. Students will also develop the skills to present reasons and evidence clearly and persuasively in writing.

US History S2 (SOC202)

PREREQUISITE: SOC201 | Offered: Spring | .5 credit

The United States History course provides students with the analytical skills and factual knowledge to deal critically with the problems and materials in our nation's history. Instructional units invite students to travel from the events leading to the Revolutionary War through the present day. Students learn to assess historical materials' their relevance to a given problem, reliability, and importance' and to weigh the evidence and interpretations presented in historical scholarship. Students will also develop the skills to present reasons and evidence clearly and persuasively in writing.

Psychology (SOC205)

PREREQUISITE: 1.0 credits of history | Offered: Fall or Spring | .5 credit

This course is designed to provide students with a basic understanding of human behavior and social relationships. The purpose is to create an awareness of the uniqueness of the individual and help students apply psychological principles to the solution of personal problems. Psychology will help students identify personal needs, values, and goals to assist them as they make career choices and family decisions. This course will also provide students with an understanding of the learning process and an appreciation of psychology as a field of knowledge based on scientific methods of research. The course is composed of the following instructional units: history and methods of psychology, the biology of psychology, cognitive psychology, human development, social psychology, and variations (psychological disorders and treatments).

Sociology (SOC209)

PREREQUISITE: 1.0 credits of history | Offered: Fall or Spring | .5 credit

This course is designed to provide students with a basic understanding of the society in which they live by analyzing and evaluating the function of major social institutions, the effects of social change, and the origin and impact of prejudice, discrimination, stereotyping, and social stratification. This course will help students develop a broad understanding of culture and the ability to think objectively as they seek solutions to current social problems.

Iowa History (SOC211)

PREREQUISITE: 1.0 credit in history | Fall or Spring | .5 credit

Iowa History is a semester elective in Social Studies in which students build historical thinking skills and think critically about issues in Iowa – both past and present. Iowa History examines the history, politics, economics, society, and cultures of our state in the United States. Students will learn about our geography and early history, political, social, and economic change over time in Iowa, and issues in education, state government, business, and agriculture. There will be curriculum connections to our local and state community through guest speakers and field experiences. This course may serve as .5 credit recovery for students who need to fulfill the 1.0 additional history requirement for graduation.

Wild Hist: People & Place S1 (SOC213)

Wild Hist: People & Place S2 (SOC214)

Contemporary World Affairs (SOC315)

PREREQUISITE: 2.0 credits of history | Offered: Fall or Spring | .5 credit

Contemporary World Affairs is a one-semester social studies elective course designed for students who have a strong interest in exploring present-day global issues. Students examine political, economic and social issues, as well as the role of the United States in world affairs. Various topics are explored in depth in order to gain an understanding of the historical context of the issue, as well as attempts made to resolve global issues. Topics include, but are not limited to, responding to terrorism, human rights and foreign policy, international relations, global economics, etc. The historical background for major world issues and conflicts will help students identify the underlying causes of most global conflicts.

America in the 1960s (SOC321)

PREREQUISITE: 1.0 credits of history | Offered: Fall or Spring | .5 credit

This one-semester project-based course is an exploration of the 1960s™ in the United States with events that changed America. Political and military issues such as the presidents that guided the nation during these decades, the Cuban Missile Crisis, and Vietnam will be examined along with cultural and social issues that influenced future generations and still remain a dominant force today. Topics include the hippie movement and other Counter Cultures that emerged, the vocal minority who took a stand with Civil Rights and the anti-war protest, the influence of rock and roll, and the rebellion of youth, fashion, and much more.

Iowa Page (SOC330)

PREREQUISITE: 2.0 credits of history | Offered: Fall or Spring | 2.0 credit

Students are accepted through an application procedure to serve as Legislative Pages in the Iowa legislature from January through April of their 11th or 12th grade year. Weekly contact with a school-based advisor and a journal and culminating essay are required.

Micro/Macro Economics (SOC401)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The American free enterprise system is studied by relating and comparing our economic system to others around the world. The formation and operation of a student company creates a unique economic learning experience. This course includes fundamental economic concepts and consumer management skills necessary for the student's effective participation in the marketplace.

Economics (SOC403)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The study of economics is a study of choices, a matter of decision-making. This course provides students with an opportunity to develop sound decision-making procedures, based on his/her values, and to evaluate alternative solutions to economic problems. Economics will help students understand how our economy works and how economic incentives influence consumers, business owners, investors, and government employees. Many of the important issues of our country and the world "recession, inflation, urban and ecological decline and decay, racial discrimination and poverty" have economic roots. By developing an awareness and perception of economics as it is interwoven in other areas of existence, students gain insight and understanding of business, government and themselves. This course introduces high school students to economics concepts through a combination of practical problems, analysis, and economic philosophy.

Government (SOC405)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The ultimate goal of this one semester course is active, responsible citizenship. The course provides students with multiple opportunities to develop an analytical perspective on government and politics in the United States, to develop civic commitment and capacity, and to build a well-informed, thoughtful response to the course driving question: What is the proper role of government in a democratic society? This question will be used throughout the course. Students return to it frequently, revising and deepening their understanding and responses in light of the concepts they are learning such as the foundation of U.S. government, political beliefs/behaviors, elections and voting, and policy making institutions. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples

***AP US History S1 (SOC501)**

PREREQUISITE: NONE | Offered: Fall | .5 credit

The AP U.S. 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. The course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes. The themes include: identify, peopling, and America in the world, along with others. This course is in line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas (special attention is given to 1491 to 1607 and from 1980 to the present). AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to

***AP US History S2 (SOC502)**

PREREQUISITE: SOC501 | Offered: Spring | .5 credit

The AP U.S. 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. The course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes. The themes include: identify, peopling, and America in the world, along with others. This course is in line with college and university U.S. history survey courses' increased focus on early and recent American history and decreased emphasis on other areas (special attention is given to 1491 to 1607 and from 1980 to the present). AP courses are college level courses taken in high school. A national exam is given in May of each year and

***AP Government S1 (SOC507)**

PREREQUISITE: 2.0 credits of history | Offered: Fall | .5 elective credit

In the year-long AP U.S. Government and Politics course, students move together through five project cycles that address the six AP topics specified by the College Board for success on the Advanced Placement exam. The course is designed using the problem-based learning approach and developed with the support of the George Lucas Educational Foundation and the University of Washington, Seattle. Student-centered learning is at the heart of this course that has students participating in five project cycles: Foundersâ€™ Intent, Election 2012, Government in Action, 112th Congress, and Supreme Court of the United States. Students in AP US Government and Politics will know important facts, concepts, and theories pertaining to U.S. government and politics. Students will understand typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various

***AP Government S2 (SOC508)**

PREREQUISITE: SOC507 | Offered: Spring | .5 credit (government credit for graduation)

In the year-long AP U.S. Government and Politics course, students move together through five project cycles that address the six AP topics specified by the College Board for success on the Advanced Placement exam. The course is designed using the problem-based learning approach and developed with the support of the George Lucas Educational Foundation and the University of Washington, Seattle. Student-centered learning is at the heart of this course that has students participating in five project cycles: Foundersâ€™ Intent, Election 2012, Government in Action, 112th Congress, and Supreme Court of the United States. Students in AP US Government and Politics will know important facts, concepts, and theories pertaining to U.S. government and politics. Students will understand typical patterns of political processes and behavior and their consequences (including the

***AP Macroeconomics (SOC511)**

PREREQUISITE: 2.0 credits of history | Offered: Fall or Spring | .5 credit

The purpose of an AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price-level determination and also develops studentsâ€™ familiarity with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. An additional purpose of this course is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of the major macroeconomic goals of economic growth, full employment, and price stability. It also develops a studentâ€™s familiarity with economic performance measures; national income and price determination, the study of which includes aggregate supply, aggregate demand, the circular flow of money, fiscal policy, and

***AP Psychology S1 (SOC513)**

PREREQUISITE: 1.0 credits of history | Offered: Fall | .5 credit

This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to college credit or advanced placement in most all 4-year colleges and universities. There are over 30 Advanced Placement courses available to DMPS students. Completion of the AP exam is an expectation for all AP courses

***AP Psychology S2 (SOC514)**

PREREQUISITE: SOC513 | Offered: Spring | .5 credit

This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to college credit or advanced placement in most all 4-year colleges and universities

***AP Human Geography S1 (SOC519)**

PREREQUISITE: 1.0 credit of history | Offered: Fall | .5 credit

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The particular topics studied in an AP Human Geography course should be judged in light of the following five college-level goals that build on the National Geography Standards developed in 1994: perspectives in geography, population, cultural patterns and processes; political organization of space; agricultural and rural land use; industrialization and economic development; and cities and urban land use.

***AP Human Geography S2 (SOC520)**

PREREQUISITE: SOC519 | Offered: Spring | .5 credit

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. The particular topics studied in an AP Human Geography course should be judged in light of the following five college-level goals that build on the National Geography Standards developed in 1994: perspectives in geography, population, cultural patterns and processes; political organization of space; agricultural

***College AP Psychology S1 (SOC527)**

This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to college credit or advanced placement in most all 4-year colleges and universities. There are over 30 Advanced Placement courses available to DMPS students. Completion of the AP exam is an expectation for all AP courses. This course meets dual enrollment requirements.

***College AP Psychology S2 (SOC528)**

This year-long college-level course covers in depth all topics in introductory psychology. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. AP courses are college level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of 3, 4, or 5 is considered passing and leads to college credit or advanced placement in most all 4-year colleges and universities. There are over 30 Advanced Placement courses available to DMPS students. Completion of the AP exam is an expectation for all AP courses. This course meets dual enrollment requirements.

***AP Microeconomics (SOC565)**

PREREQUISITE: SOC201/SOC202 OR SOC501/SOC502 | Offered: Fall or spring | .5 credit

AP Microeconomics is an introductory college-level course, offered to high school students, that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops students familiarity with the operation of product and factor markets, distributions of income, market failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Students are expected to take the Advanced Placement exam in May.

ELL Social Studies Course Alignments

ROOT COURSE NUMBER	ALIGNED COURSE NUMBER
US History S1 (SOC201)	SOC931
US History S2 (SOC202)	SOC932
Government (SOC405)	SOC935

Economics (SOC304)	SOC937
20th Cent. World Hist. 1 (SOC111)	SOC943
20th Cent. World Hist. 2 (SOC112)	SOC944

Science

Des Moines Public Schools seeks to provide a rigorous academic and quality laboratory experience for all students. Science education cultivates a natural curiosity that leads to investigations and interpretations about one's environment. Through experimentation, inquiry, critical thinking and team-work, all students will be provided with the experiences necessary to become responsible decision makers in an increasingly technological world.

Our curriculum fosters an appreciation for science and its technological applications and emphasizes the connection between the classroom and the scientific community. Through ongoing partnerships with Iowa State University our students and staff connect with field scientists and researchers throughout the year.

Our courses are aligned with nationally recognized standards and are delivered in an environment that provides rich opportunities for all students to access content information, through laboratory experiences and real world problems. Our goal is to graduate students who

are informed, aware, scientifically literate citizens.

Curriculum Coordinator

Adam Puderbaugh
adam.puderbaugh@dmschools.org
ext.7335

Environmental Science S1 (SCI201)

PREREQUISITE: SCI203/SCI204 | Offered: Fall | .5 credit

Environmental Science is a course designed to explore underlying causes and effects of earth's natural and man-made environmental problems. The interrelationships between all living things and the interactions between living things and their non-living environment will be the framework for this study of the earth and its environment. This course combines principles of biology and earth science, and would be appealing to students interested in either of these disciplines. There are many different opinions regarding the causes and effects of environmental problems. Therefore, students will be expected to practice and display a range of problem solving and critical thinking skills to examine scientific evidence and propose and conduct investigations.

Environmental Science S2 (SCI202)

PREREQUISITE: SCI201 | Offered: Spring | .5 credit

Environmental Science is a course designed to explore underlying causes and effects of earth's natural and man-made environmental problems. The interrelationships between all living things and the interactions between living things and their non-living environment will be the framework for this study of the earth and its environment. This course combines principles of biology and earth science, and would be appealing to students interested in either of these disciplines. There are many different opinions regarding the causes and effects of environmental problems. Therefore, students will be expected to practice and display a range of problem solving and critical thinking skills to examine scientific evidence and propose and conduct investigations.

Biology S1 (SCI203)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Biology is the study of life. This lab-based course provides a survey of life science topics with a special focus on science processes and inquiry, the cell, the molecular basis of heredity, evolution, interdependence of organisms, living systems, and behavior of organisms. Integration of these topics allows students to practice scientific thinking skills and apply them to in-class investigations. Biology serves as a prerequisite for several advanced life science courses including Environmental Science, AP Biology, and Marine Biology.

Biology S2 (SCI204)

PREREQUISITE: SCI203 | Offered: Spring | .5 credit

Biology is the study of life. This lab-based course provides a survey of life science topics with a special focus on science processes and inquiry, the cell, the molecular basis of heredity, evolution, interdependence of organisms, living systems, and behavior of organisms. Integration of these topics allows students to practice scientific thinking skills and apply them to in-class investigations. Biology serves as a prerequisite for several advanced life science courses including Environmental Science, AP Biology, and Marine Biology.

Conceptual Physics S1 (SCI205)

PREREQUISITE: NONE CO-REQUISITE: MTH111 is strongly suggested | Offered: Fall | .5 credit

This course examines physics concepts without emphasizing high level mathematics. Basic Algebra skills are used to increase students'™ understanding of these concepts. Designed to make physics available to a wider audience, this course will provide students with an intellectual foundation for the study of biology and chemistry later in their high school education. Concepts such as straight-line motion, forces, energy and mechanical waves will be studied. This course will help to prepare a student to take AP Physics 1 during his/her junior or senior year, and should not be viewed as a substitute for an upper level Physics course.

Conceptual Physics S2 (SCI206)

PREREQUISITE: SCI205 CO-REQUISITE: MTH112 is strongly suggested | Offered: Spring | .5 credit

This course examines physics concepts without emphasizing high level mathematics. Basic Algebra skills are used to increase students'™ understanding of these concepts. Designed to make physics available to a wider audience, this course will provide students with an intellectual foundation for the study of biology and chemistry later in their high school education. Concepts such as straight-line motion, forces, energy and mechanical waves will be studied. This course will help to prepare a student to take AP Physics 1 during his/her junior or senior year, and should not be viewed as a substitute for an upper level Physics course.

Earth Science S1 (SCI207)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This interdisciplinary course, consisting of a study of the earth and space, is an integral part of the science sequence. Topics of study include geology, space and astronomy, meteorology and oceanography. Laboratory investigations, which involve students in the inquiry processes of science, are incorporated into the course. This course is part of the sequence of science courses students should consider for a strong, diversified academic program in science.

Earth Science S2 (SCI208)

PREREQUISITE: SCI207 | Offered: Spring | .5 credit

This interdisciplinary course, consisting of a study of the earth and space, is an integral part of the science sequence. Topics of study include geology, space and astronomy, meteorology and oceanography. Laboratory investigations, which involve students in the inquiry processes of science, are incorporated into the course. This course is part of the sequence of science courses students should consider for a strong, diversified academic program in science.

PLTW:Prin of Biomedical Sci S1 (SCI221)

Prerequisite: Biology

Introductory course of the PLTW Biomedical Science program. The class introduces students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. This course is only offered by PTLW trained instructors in approved locations.

PLTW:Prin of Biomedical Sci S2 (SCI222)

Prerequisite: SCI221

The second semester of the PTLW introduction to biomedical sciences. The class introduces students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. This course is only offered by PTLW trained instructors in approved locations.

Chemistry S1 (SCI301)

PREREQUISITE: MTH111/MTH112 | Offered: Fall | .5 credit

The nature of matter and its relationship to chemical changes is emphasized in this course. Matter is examined through a study of elements, atoms and molecules, the periodic table, chemical behavior, and energy changes. Laboratory investigations are used extensively to enable students to discover and reinforce these concepts while challenging students to use good scientific thinking and reasoning skills.

Chemistry S2 (SCI302)

PREREQUISITE: SCI301 | Offered: Spring | .5 credit

The nature of matter and its relationship to chemical changes is emphasized in this course. Matter is examined through a study of elements, atoms and molecules, the periodic table, chemical behavior, and energy changes. Laboratory investigations are used extensively to enable students to discover and reinforce these concepts while challenging students to use good scientific thinking and reasoning skills.

Forensic Science (SCI303)

PREREQUISITE: SCI203/SCI204 and SCI301/302 | Offered: Fall or Spring | .5 credit

Forensic Science is an innovative and unique one semester course that develops critical thinking and problem-solving skills. Fingerprinting identification, hair analysis, and trace evidence examination are only a few of the many topics discussed. This course is rich in lab work and is a natural vehicle for students to practice science as inquiry. Forensic science is multidisciplinary; it is an applied science that encompasses the sciences, technology, mathematics, social studies, and language arts.

Botany (SCI305)

PREREQUISITE: SCI203/SCI204 | Offered: Fall or Spring | .5 credit

Botany is the study of plants. In this course, students with an interest in plants will have opportunities to practice skills of inquiry as they study the life cycle, growth patterns, and structure/function of plants as well as the role of plants in our ecosystem. Laboratory investigations are regularly incorporated.

Zoology (SCI307)

PREREQUISITE: SCI203/SCI204 | Offered: Fall or Spring | .5 credit

Zoology is the study of animals. In this course, students with an interest in animals will have opportunities to practice skills of inquiry as they study relationships among animal groups and their environment, classification and life cycles of animal groups, and relationships between animal groups. Laboratory investigations are regularly incorporated.

Anatomy and Physiology (SCI309)

PREREQUISITE: SCI203/SCI204 | Offered: Fall or Spring | .5 credit

Anatomy & Physiology is a one semester survey course that covers the structure and function of the human body from the cellular level to organ systems. The organ systems studied are the skin and integumentary system, the skeletal and muscular systems, the nervous system, and the senses, the endocrine system, blood and the cardiovascular system, the lymphatic system and immunity, the respiratory system, the urinary system, the digestive system including nutrition, and the reproductive system. Other topics included in the course are: the body's balance of water; electrolytes, acids, and bases; and an introduction to human growth and development. This course is meant to be an introductory course in Anatomy & Physiology.

Astronomy (SCI311)

PREREQUISITE: SCI205/SCI206 or SCI207/SCI208 | Offered: Fall or Spring | .5 credit

A one-semester course devoted to the study of astronomy. Units of study will include: objects that can be observed in the sky with the unaided eye such as the sun, planets, and stars; equipment that is used to further our knowledge of the universe; the relation between the earth and the other objects in the sky; the properties and lives of stars; the origins of our universe and solar system.

Scientific Research S1 (SCI321)

PREREQUISITE: Successful completion of 2.0 credits of science, LA103/LA105 and LA205/LA207 or upon instructor recommendation | Offered: Fall | .5 credit

This course will include long-term inquiry research projects in which high school students design and implement a lengthy experiment themselves. Students are challenged to complete original and independent research that is characteristic of college-level courses. Students will generate a research question, conduct a literature review, collaborate with content-area experts, develop an hypotheses, collect and analyze data, and present original research at an annual student symposium.

Scientific Research S2 (SCI322)

PREREQUISITE: Successful completion of 2.0 credits of science, LA103/LA105 and LA205/LA207 or upon instructor recommendation | Offered: Spring | .5 credit

This course will include long-term inquiry research projects in which high school students design and implement a lengthy experiment themselves. Students are challenged to complete original and independent research that is characteristic of college-level courses. Students will generate a research question, conduct a literature review, collaborate with content-area experts, develop an hypotheses, collect and analyze data, and present original research at an annual student symposium.

Scientific Research II S1 (SCI323)

PREREQUISITE: Successful completion of SCI321 and SCI322 | Offered: Fall | .5 credit

This course will include long-term inquiry research projects in which high school students design and implement a lengthy experiment themselves. Students are challenged to complete original and independent research that is characteristic of college-level courses. Students will generate a research question, conduct a literature review, collaborate with content-area experts, develop an hypotheses, collect and analyze data, and present original research at an annual student symposium.

Scientific Research II S2 (SCI324)

PREREQUISITE: SCI323 | Offered: Spring | .5 credit

This course will include long-term inquiry research projects in which high school students design and implement a lengthy experiment themselves. Students are challenged to complete original and independent research that is characteristic of college-level courses. Students will generate a research question, conduct a literature review, collaborate with content-area experts, develop an hypotheses, collect and analyze data, and present original research at an annual student symposium.

Physics S1 (SCI407)

PREREQUISITE: MTH111/MTH112, MTH211/MTH212 CO-REQUISITE: MTH311/MTH312 | Offered: Fall | .5 credit

This course examines the essential interrelationships of matter and energy. Content topics include motion, work, energy, sound, light, energy and magnetism. Through laboratory investigations and problem solving activities utilizing critical thinking and mathematical analysis of data, students gain a deep understanding of the principles of physics. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED.

Physics S2 (SCI408)

PREREQUISITE: SCI407 | Offered: Spring | .5 credit

This course examines the essential interrelationships of matter and energy. Content topics include motion, work, energy, sound, light, energy and magnetism. Through laboratory investigations and problem solving activities utilizing critical thinking and mathematical analysis of data, students gain a deep understanding of the principles of physics. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED.

***AP Environmental Science S1 (SCI501)**

PREREQUISITE: SCI203/SCI204 CO-REQUISITE: SCI301/SCI302 | Offered: Fall | .5 credit

AP Environmental Science is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal of the course is to provide students with scientific principles, concepts and methodologies to understand the interrelationship of the natural world; to identify and analyze natural and man-made environmental problems; to evaluate the relative risk associated with these problems; and to examine alternative solutions for resolving and preventing them. There are strong lab and field investigations, allowing students to learn about the environment through firsthand observation. Field experiences may be arranged outside of school hours. Completion of the AP exam is an expectation for all AP courses.

***AP Environmental Science S2 (SCI502)**

PREREQUISITE: SCI501 | Offered: Spring | .5 credit

AP Environmental Science is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal of the course is to provide students with scientific principles, concepts and methodologies to understand the interrelationship of the natural world; to identify and analyze natural and man-made environmental problems; to evaluate the relative risk associated with these problems; and to examine alternative solutions for resolving and preventing them. There are strong lab and field investigations, allowing students to learn

about the environment through firsthand observation. Field experiences may be arranged outside of school hours. Completion of the AP exam is an expectation for all AP courses.

***AP Chemistry S1 (SCI505)**

PREREQUISITE: SCI301/SCI302 CO-REQUISITE: SCI203/204 or a Physics course | Offered: Fall | .5 credit

AP Chemistry is an intensive study of matter at the atomic and molecular levels, emphasizing inorganic chemistry. There is a concentration on the mathematical treatment of the principles of college chemistry. The course covers formula writings, types of chemical reactions and stoichiometry, atomic and molecular structure, gases, kinetics, equilibrium, acid-base chemistry, and thermodynamics. Laboratory work is extensive and equivalent to freshman college-level with formal reports. Completion of the AP exam is an expectation for all AP courses.

***AP Chemistry S2 (SCI506)**

PREREQUISITE: SCI505 | Offered: Spring | .5 credit

AP Chemistry is an intensive study of matter at the atomic and molecular levels, emphasizing inorganic chemistry. There is a concentration on the mathematical treatment of the principles of college chemistry. The course covers formula writings, types of chemical reactions and stoichiometry, atomic and molecular structure, gases, kinetics, equilibrium, acid-base chemistry, and thermodynamics. Laboratory work is extensive and equivalent to freshman college-level with formal reports. Completion of the AP exam is an expectation for all AP courses.

***AP Biology S1 (SCI507)**

PREREQUISITE: SCI203/SCI204 CO-REQUISITE: SCI301/302 | Offered: Fall | .5 credit

This course is the equivalent of an introductory college biology course. It is an intensive study emphasizing the molecular biology of the cell, genetics and evolution, organisms and populations. Laboratory activities challenge students' abilities to understand problems, develop and implement experimental designs, manipulate data, and think analytically. Laboratory work is extensive. Completion of the AP exam is an expectation for all AP courses.

***AP Biology S2 (SCI508)**

PREREQUISITE: SCI507 | Offered: Spring | .5 credit

This course is the equivalent of an introductory college biology course. It is an intensive study emphasizing the molecular biology of the cell, genetics and evolution, organisms and populations. Laboratory activities challenge students' abilities to understand problems, develop and implement experimental designs, manipulate data, and think analytically. Laboratory work is extensive. Completion of the AP exam is an expectation for all AP courses.

***College Genetics & Microbiology @ Central Campus (SCI509)**

Prerequisites: Biology with Chemistry as a co-requisite. Grades: 11-12

The yearlong advanced Genetics and Microbiology program looks at the medical world through our genes. Students extract DNA, perform experiments normally only done in research and college labs. Additionally, they study the effects of genetics on cancer; the controversy and uses of stem cells; grow glowing bacteria art and many more fascinating projects. Students take field trips to research centers, colleges, and other pertinent sites that help them in their

understanding of the genetic world. College Genetics and Microbiology offers college credits and students who successfully complete the program with a grade of B or better receive a \$500 college scholarship.

***College AP Environment S1 (SCI517)**

PREREQUISITE: SCI203/SCI204 CO-REQUISITE: SCI301/SCI302 | Offered: Fall | .5 credit

AP Environmental Science with college credit is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal of the course is to provide students with scientific principles, concepts and methodologies to understand the interrelationship of the natural world; to identify and analyze natural and man-made environmental problems; to evaluate the relative risk associated with these problems; and to examine alternative solutions for resolving and preventing them. There are strong lab and field investigations, allowing students to learn about the environment through firsthand observation. Field experiences may be arranged outside of school hours. Completion of the AP exam is an expectation for all AP courses.

***College AP Environment S2 (SCI518)**

PREREQUISITE: SCI517 | Offered: Spring | .5 credit

AP Environmental Science with college credit is a one-year high school course, equivalent to a one-semester college course stressing scientific principles and analysis. The goal of the course is to provide students with scientific principles, concepts and methodologies to understand the interrelationship of the natural world; to identify and analyze natural and man-made environmental problems; to evaluate the relative risk associated with these problems; and to examine alternative solutions for resolving and preventing them. There are strong lab and field investigations, allowing students to learn about the environment through firsthand observation. Field experiences may be arranged outside of school hours. Completion of the AP exam is an expectation for all AP courses.

***College AP Physics S1 (SCI519)**

PREREQUISITE: MTH111/MTH112, MTH211/MTH212 CO-REQUISITE: MTH311/MTH312

Offered: Fall.5 credit This AP course with associated college credit is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, forces and Newton, gravity and fields, energy, momentum, rotational momentum, magnetism, simple harmonic motion, and waves. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

***College AP Physics S2 (SCI520)**

PREREQUISITE: SCI519 | Offered: Spring | .5 credit

This AP course with associated college credit is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, forces and Newton, gravity and fields, energy, momentum, rotational momentum, magnetism, simple harmonic motion, and waves. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

***College Anatomy and Physiology @ Central Campus (SCI521)**

Prerequisites: Biology with Chemistry as a co-requisite. Grades: 11-12

The yearlong advanced Anatomy and Physiology program covers the structure and function of the human body from the cellular level to organ systems. The organ systems studied are the skin and integumentary system, skeletal and muscular systems, nervous system and the senses, endocrine system, cardiovascular system, lymphatic system and immunity,

respiratory system, urinary system, digestive system – including nutrition, and reproductive system. Anatomy and Physiology offers college credits through laboratory and exams, and experimental write-ups and projects.

***AP Physics 1 S1 (SCI525)**

PREREQUISITE: MTH111/MTH112, MTH211/MTH212 CO-REQUISITE: MTH311/MTH312 | Offered: Fall | .5 credit

This course is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, forces and Newton, gravity and fields, energy, momentum, rotational momentum, magnetism, simple harmonic motion, and waves. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

***AP Physics 1 S2 (SCI526)**

PREREQUISITE: SCI525 | Offered: Spring | .5 credit

This course is the equivalent of an introductory college physics course and includes topics in both classical and modern physics, emphasizing the mathematical treatment of physical events. The course covers topics such as kinematics, forces and Newton, gravity and fields, energy, momentum, rotational momentum, magnetism, simple harmonic motion, and waves. Students interested in pursuing a major in science or engineering in college should take this course in order to be fully prepared for college physics. Lab experience is extensive. Concurrent enrollment in Pre-Calculus is recommended, but not REQUIRED. Completion of the AP exam is an expectation for all AP courses.

Science Lab AP/IB I S1 (SCI591)

PREREQUISITE: NONE CO-REQUISITE: Must be concurrently enrolled in an AP Science course | Offered: Fall | .5 credit

This course is highly recommended for students who are concurrently enrolled in an Advanced Placement science course. The course is instructed by an Advanced Placement teacher in the content area and provides structured support for success in the AP environment. The teacher provides direct instruction in areas of reading and writing in the content area with time for guided and independent practice. This course is designed to help increase a student's success in the Advanced Placement program.

Science Lab AP/IB I S2 (SCI592)

PREREQUISITE: NONE CO-REQUISITE: Must be concurrently enrolled in an AP Science course | Offered: Spring | .5 Credit

This course is highly recommended for students who are concurrently enrolled in an Advanced Placement science course. The course is instructed by an Advanced Placement teacher in the content area and

Science Lab AP/IB II S1 (SCI593)

PREREQUISITE: NONE CO-REQUISITE: Must be concurrently enrolled in an AP Science course | Offered: Fall | .5 Credit

This course is highly recommended for students who are concurrently enrolled in an Advanced Placement science course. The course is instructed by an Advanced Placement teacher in the content area and

Science Lab AP/IB II S2 (SCI594)

PREREQUISITE: NONE CO-REQUISITE: Must be concurrently enrolled in an AP Science course | Offered: Spring | .5 Credit

This course is highly recommended for students who are concurrently enrolled in an Advanced Placement science course. The course is instructed by an Advanced Placement teacher in the content area and

Science Lab AP/IB III S1 (SCI595)

PREREQUISITE: NONE CO-REQUISITE: Must be concurrently enrolled in an AP Science course | Offered: Fall | .5 Credit

This course is highly recommended for students who are concurrently enrolled in an Advanced Placement science course. The course is instructed by an Advanced Placement teacher in the content area and

Science Lab AP/IB III S2 (SCI596)

PREREQUISITE: NONE CO-REQUISITE: Must be concurrently enrolled in an AP Science course Offered: Spring | .5 Credit

This course is highly recommended for students who are concurrently enrolled in an Advanced Placement science course. The course is instructed by an Advanced Placement teacher in the content area and

ELL Science Course Alignments

ROOT COURSE NUMBER	ALIGNED COURSE NUMBERS
Earth Science S1/S2 (SCI207/ SCI208)	SCI921/ SCI922
Conceptual Physics S1/S2 (SCI205/SCI206)	SCI923/SCI924
Biology S1/S2 (SCI203/SCI204)	SCI925/SCI926
Earth Science S1/S2 (SCI207/SCI208)	SCI9082/SCI9085
Environmental Science S1/S2 (SCI201/202)	SCI927/SCI928

For additional science credit options, please see the Career & Technical Program offerings in the Central Campus Section.

Performing Arts

The Des Moines Public Schools music and drama programs are highly acclaimed, and offer a comprehensive and extensive variety of classes at all levels. The Performing Arts programs in our district high schools empower students to use their minds creatively and inspire students through diversity in learning. Students who participate in Performing Arts academic areas broaden their life experiences and become equipped with the critical thinking, communication, collaboration, creativity, and problem solving skills needed in the 21st century.

Curriculum Coordinator

Kelly Kretschmer

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ext. 7609

Band S1 (BND101)

PREREQUISITE: Previous semester of concert band experience on applicable instrument or audition

Offered: Fall | .5 credit

This course includes concert band, and may include marching band (check with your school). **Marching Band:** The course begins approximately two weeks prior to the start of school with a required summer marching band camp. Marching band involves performances at all home varsity football games and a variety of other contests or parades each fall. **Concert Band:** Auditions for concert band are held in October. Members in the band will study traditional concert band literature, and perform regularly throughout the winter and spring months. Members are encouraged to take private lessons and may be asked to participate in honor bands.

Band S2 (BND102)

PREREQUISITE: Previous semester of concert band experience on applicable instrument or audition

Offered: Spring | .5 credit

This course includes concert band. **Concert Band:** Auditions for concert band are held in October. Members in the band will study traditional concert band literature, and perform regularly throughout the winter and spring months. Members are encouraged to take private lessons, and may also participate in solo/ensemble contests.

Beg. Handbells (MUS105)

PREREQUISITE: Audition | Offered: Fall | .25 Credit

Beginning hand bell ringers will learn the basic techniques of hand bell ringing through a variety of hand bell literature. Students will be required to perform at some evening concerts. Class meets before school.

Beg. Handbells (MUS106)

PREREQUISITE: Audition | Offered: Spring | .25 Credit

Beginning hand bell ringers will learn the basic techniques of hand bell ringing through a variety of hand bell literature. Students will be required to perform at some evening concerts. Class meets before school.

Jazz II (BND107)

PREREQUISITE: Audition and must conform to IHSMA rules regarding participation **CO-REQUISITE:** Concert Band, Wind Ensemble, or Wind Symphony, unless implicitly allowed by IHSMA | Offered: Fall | .25 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Jazz II (BND108)

PREREQUISITE: Audition and must conform to IHSMA rules regarding participation **CO-REQUISITE:** Concert Band, Wind Ensemble, or Wind Symphony, unless implicitly allowed by IHSMA | Offered: Spring | .25 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Jazz Combo (BND109)

PREREQUISITE: Middle school band, Audition | Offered: Fall | .5 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Jazz Combo (BND110)

PREREQUISITE: Middle school band, Audition | Offered: Spring | .5 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Jazz Ensemble (BND111)

PREREQUISITE: Audition and must conform to IHSMA rules regarding participation **CO-REQUISITE:** Concert Band, Wind Ensemble, or Wind Symphony, unless implicitly allowed by IHSMA | Offered: Spring | .25 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Jazz Ensemble (BND112)

PREREQUISITE: Audition and must conform to IHSMA rules regarding participation **CO-REQUISITE:** Concert Band, Wind Ensemble, or Wind Symphony, unless implicitly allowed by IHSMA | Offered: Spring | .25 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Wind Symphony S1 (BND115)

PREREQUISITE: Audition only | Offered: Fall | .5 credit

Wind Symphony is the most advanced wind and percussion ensemble. Wind Symphony is select group that will study highly advanced concert symphony music.

Wind Wymphony S2 (BND116)

PREREQUISITE: Audition only | Offered: Spring | .5 credit

Wind Symphony is the most advanced wind and percussion ensemble. Wind Symphony is select group that will study highly advanced concert symphony music.

Wind Ensemble S1 (BND117)

PREREQUISITE: Audition only | Offered: Fall | .5 credit

Wind Ensemble is the most advanced wind and percussion ensemble. Wind Ensemble is select group that will study highly advanced concert band music.

Wind Ensemble S2 (BND118)

PREREQUISITE: Audition only | Offered: Spring | .5 credit

Wind Ensemble is the most advanced wind and percussion ensemble. Wind Ensemble is select group that will study highly advanced concert band music.

Percussion Ensemble S1 (BND119)

PREREQUISITE: Middle school band, Audition | Offered: Fall | .5 credit

This course is offered to any student who plays a percussion instrument. Through performances, students will develop an understanding of basic percussion styles and improvisation techniques.

Percussion Ensemble S2 (BND120)

PREREQUISITE: Middle school band, Audition | Offered: Spring | .5 credit

This course is offered to any student who plays a percussion instrument. Through performances, students will develop an understanding of basic percussion styles and improvisation techniques

Orchestra S1 (ORC121)

PREREQUISITE: Previous semester of Orchestra on applicable instrument or audition | Offered: Fall | .5 credit

This course is for all interested string players. Students participate in several concerts per year.

Orchestra S2 (ORC122)

PREREQUISITE: Previous semester of Orchestra on applicable instrument or audition | Offered: Spring | .5 credit

This course is for all interested string players. Students participate in several concerts per year.

Concert Choir Non-Audition S1 (VOC139)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Class will include study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature. Each semester the Concert Choir will study and rehearse music to be performed at specified concerts. This course replaces Lincoln Singers (MUS141 and MUS142). This course replaces Prep Choir Non-Audition (MUS135 and MUS136).

Concert Choir Non-Audition S2 (VOC140)

PREREQUISITE: MUS139 | Offered: Spring | .5 credit

Class will include study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature. Each semester the Concert Choir will study and rehearse music to be performed at specified concerts.

Treble Choir S1 (VOC171)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Class will include study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature which features women's voices. Each semester the Concert Choir will study and rehearse music to be performed at specified concerts.

Treble Choir S2 (VOC172)

PREREQUISITE: MUS171 | Offered: Spring | .5 credit

Class will include study of vocal techniques and exercises, music theory and terminology, study of the human voice, and the history of choral music through performance of varied choral literature which features women's voices. Each semester the Concert Choir will study and rehearse music to be performed at specified concerts

Alternative Strings S1 (ORC173)

PREREQUISITE: Audition | Offered: Fall | .5 credit

This course is for string players interested in non-traditional literature, such as electronic instruments, jazz, and world music. Performances will be held throughout the year.

Alternative Strings S2 (ORC174)

PREREQUISITE: Audition | Offered: Spring | .5 credit

This course is for string players interested in non-traditional literature, such as electronic instruments, jazz, and world music. Performances will be held throughout the year.

Music Theory S1 (MUS203)

PREREQUISITE: Instructor Approval CO-REQUISITE: Must be enrolled in an instrumental or vocal music course.
Offered: Fall | .5 credit

Students will study traditional music theory, including scales, chords, intervals, transposition, and beginning part-writing.

Music Theory S2 (MUS204)

PREREQUISITE: Instructor Approval CO-REQUISITE: Must be enrolled in an instrumental or vocal music course Offered:
Spring | .5 credit

Students will study traditional music theory, including scales, chords, intervals, transposition, and beginning part-writing.

Advanced Handbells (MUS205)

PREREQUISITE: Audition | Offered: Fall | .25 credit

Advanced hand bell ringers will learn the advanced techniques of hand bell ringing through a variety of hand bell literature. Students will perform extensively throughout the community with

Advanced Handbells (MUS206)

PREREQUISITE: Audition | Offered: Spring | .25 Credit

Beginning hand bell ringers will learn the basic techniques of hand bell ringing through a variety of hand bell literature. Students will be required to perform at some evening concerts. Class meets befo Advanced hand bell ringers will learn the advanced techniques of hand bell ringing through a variety of hand bell literature. Students will perform extensively throughout the community with several daytime and evening performances.

Jazz I (BND207)

PREREQUISITE: Audition and must conform to IHSMA rules regarding participation | Offered: Fall. | 5 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Jazz I (BND208)

PREREQUISITE: Audition and must conform to IHSMA rules regarding participation | Offered: Spring | .5 credit

This course is offered to any student who plays a jazz instrument. Through performances, students will develop an understanding of basic jazz styles and improvisation techniques.

Concert Choir Audition S1 (VOC209)

PREREQUISITE: Audition only | Offered: Fall | .5 credit

This choir is designed to develop vocal technique, part-singing, and fundamentals of choral singing through a variety of musical styles. Multiple performances will be expected throughout the year.

Concert Choir Audition S2 (VOC210)

PREREQUISITE: Audition only | Offered: Spring | .5 credit

This choir is designed to develop vocal technique, part-singing, and fundamentals of choral singing through a variety of musical styles. Multiple performances will be expected throughout the year.

Prep Choir Audition S1 (VOC211)

PREREQUISITE: Audition | Offered: Fall | .5 credit

This choir is designed to develop basic vocal technique, part-singing, and fundamentals of choral singing through a variety of musical styles. Multiple performances will be expected throughout the year.

Prep Choir Audition S2 (VOC212)

PREREQUISITE: Audition | Offered: Spring | .5 credit

This choir is designed to develop basic vocal technique, part-singing, and fundamentals of choral singing through a variety of musical styles. Multiple performances will be expected throughout the year.

Show Choir S1 (VOC217)

PREREQUISITE: Audition
CO-REQUISITE: Concert, Chamber or Core Choir Ensemble per IHSMA rules
Offered: Fall | .5 credit

Show Choir (formerly known as Sound Attraction) will study and sing styles including jazz and popular music. The members are expected to participate in fall and spring shows, several competitions, and performances outside of school hours. This course combined Fresh Air (MUS213/MUS214), Infinity (MUS311/MUS312), and Scarlet Singers (MUS313/MUS314).

Show Choir S2 (VOC218)

PREREQUISITE: Audition
CO-REQUISITE: Concert, Chamber or Core Choir Ensemble per IHSMA rules
Offered: Spring | .5 credit

Show Choir (formerly known as Sound Attraction) will study and sing styles including jazz and popular music. The members are expected to participate in fall and spring shows, several competitions, and performances outside of school

hours. This course combined Fresh Air (MUS213/MUS214), Infinity (MUS311/MUS312), and Scarlet Singers (MUS313/MUS314).

Jazz Choir (VOC221)

PREREQUISITE: Audition | Offered: Fall | .5 credit

Jazz Choir (formerly known as *Harmony) is an auditioned vocal jazz ensemble designed to challenge the student through instruction of vocal techniques and competitions, including various community performances. This course will include, but not be limited to: improvisational development, theory, special projects, history and literature, ear and key skills, basic keyboard tool development, and performances of various styles of jazz.

Jazz Choir (VOC222)

PREREQUISITE: Audition | Offered: Spring | .5 credit

Jazz Choir (formerly known as *Harmony) is an auditioned vocal jazz ensemble designed to challenge the student through instruction of vocal techniques and competitions, including various community performances. This course will include, but not be limited to: improvisational development, theory, special projects, history and literature, ear and key skills, basic keyboard tool development, and performances of various styles of jazz.

Gospel Choir S1 (VOC223)

PREREQUISITE: Audition | Offered: Fall | .5 credit

Gospel Choir (formerly known as Heart and Soul Choir) is a choral performing group which seeks to explore non-traditional vocal music from a variety of sources, especially the contributions of African American musicians. Jazz, R&B, Gospel, and ragtime are examples of styles that will be studied and performed. This course combined with Bridges2Harmony (MUS225/MUS226).

Gospel Choir S2 (VOC224)

PREREQUISITE: Audition | Offered: Spring | .5 credit

Gospel Choir (formerly known as Heart and Soul Choir) is a choral performing group which seeks to explore non-traditional vocal music from a variety of sources, especially the contributions of African American musicians. Jazz, R&B, Gospel, and ragtime are examples of styles that will be studied and performed. This course combined with Bridges2Harmony (MUS225/MUS226).

Chamber Choir S1 (VOC315)

PREREQUISITE: Audition only | Offered: Fall | .5 credit

Class will include study of advanced vocal techniques and exercises, review of basic music theory and terminology, advanced sight reading skills, study of the human voice, vocal health, and the history of choral music through performance of various styles of vocal literature. Each semester Chamber Choir will study and rehearse music to be performed at specified concerts and contests.

Chamber Choir S2 (VOC316)

PREREQUISITE: Audition only | Offered: Fall | .5 credit

Class will include study of advanced vocal techniques and exercises, review of basic music theory and terminology, advanced sight reading skills, study of the human voice, vocal health, and the history of choral music through performance of various styles of vocal literature. Each semester Chamber Choir will study and rehearse music to be performed at specified concerts and contests.

***Honors Chamber Choir S1 (VOC401)**

PREREQUISITE: Audition | Offered: Fall | .5 credit

Class will include study of advanced vocal techniques and exercises, review of basic music theory and terminology, advanced sight reading skills, study of the human voice, vocal health, and the history of choral music through performance of various styles of vocal literature. Each semester Chamber Choir will study and rehearse music to be performed at specified concerts and contests. Students in this course are required to audition for All-State.

***Honors Chamber Choir S2 (VOC402)**

PREREQUISITE: Audition | Offered: Spring | .5 credit

Class will include study of advanced vocal techniques and exercises, review of basic music theory and terminology, advanced sight reading skills, study of the human voice, vocal health, and the history of choral music through performance of various styles of vocal literature. Each semester Chamber Choir will study and rehearse music to be performed at specified concerts and contests. Students in this course are required to perform at solo/ensemble.

Varsity Show Choir S1 (VOC403)

PREREQUISITE: Audition | Offered: Spring | .5 credit

Class will include study of advanced vocal techniques and exercises, review of basic music theory and terminology, advanced sight reading skills, study of the human voice, vocal health, and the history of choral music through performance of various styles of vocal literature. Each semester Varsity Show Choir will study and rehearse music to be performed at specified concerts and contests.

Varsity Show Choir S2 (VOC404)

PREREQUISITE: Audition | Offered: Spring | .5 credit

Class will include study of advanced vocal techniques and exercises, review of basic music theory and terminology, advanced sight reading skills, study of the human voice, vocal health, and the history of choral music through performance of various styles of vocal literature. Each semester Varsity Show Choir will study and rehearse music to be performed at specified concerts and contests.

***Honors Band S1 (BND405)**

PREREQUISITE: Audition | Offered: Fall | .5 credit

This course is for a select group that will study highly advanced band music. Members are determined by audition. Students in this course are required to audition for All-State/SCIBA.

***Honors Band S2 (BND406)**

PREREQUISITE: Audition | Offered: Spring | .5 credit

This course is for a select group that will study highly advanced band music. Members are determined by audition. Students in this course are required to perform at Solo/Ensemble.

***Honors Orchestra S1 (ORC407)**

PREREQUISITE: Audition | Offered: Fall | .5 credit

This course is for a select group that will study highly advanced orchestra music. Members are determined by audition.

***Honors Orchestra S2 (ORC408)**

PREREQUISITE: Audition | Offered: Spring | .5 credit

This course is for a select group that will study highly advanced orchestra music. Members are determined by audition.

***AP Music Theory (MUS501)**

PREREQUISITE: NONE | Offered: Fall | .5 credit

Advanced Placement Music Theory is a college-level study of the theory and ear training of music. It is geared toward the Advanced Placement Music Theory test, which is strong on aural (listening) skills as well as written skills. Students will learn to identify scales, intervals, chord progressions and modulations by sound and by sight. Students will sing melodies on sight and improve students'™ rhythm reading. Students will learn how to write music from various forms of shorthand and analyze music. Students will learn, chords, cadences and forms. Students will decode music and decode how and why music is written the way it is. There are no official prerequisites, but those having had music before will have a definite advantage. This course combined with IS Music Composition (MUS301/MUS302) and IS Music Theory (MUS303/MUS304).

***AP Music Theory (MUS502)**

PREREQUISITE: NONE | Offered: Spring | .5 credit

Advanced Placement Music Theory is a college-level study of the theory and ear training of music. It is geared toward the Advanced Placement Music Theory test, which is strong on aural (listening) skills as well as written skills. Students will learn to identify scales, intervals, chord progressions and modulations by sound and by sight. Students will sing melodies on sight and improve students'™ rhythm reading. Students will learn how to write music from various forms of shorthand and analyze music. Students will learn, chords, cadences and forms. Students will decode music and decode how and why music is written the way it is. There are no official prerequisites, but those having had music before will have a definite advantage.

Theatre Arts I S1 (DRM129)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Theatre Arts I is an introductory course that will teach students to utilize and develop self-confidence, poise, basic theatre terminology, appreciation of various dramatic forms, appropriate response, awareness of theatre production processes, understanding of theatre literature, knowledge of theatre history, and beginning performance skills.

Theatre Arts I S2 (DRM130)

PREREQUISITE: LA129 | Offered: Spring | .5 credit

Theatre Arts I is an introductory course that will teach students to utilize and develop self-confidence, poise, basic theatre terminology, appreciation of various dramatic forms, appropriate response, awareness of theatre production processes, understanding of theatre literature, knowledge of theatre history, and beginning performance skills.

Play Production I S1 (DRM131)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Play Production I is a survey course of technical theatre covering set construction/safety, costumes, make-up, publicity/programs, lights/sound, props, house management, and play reading and analysis.

Play Production I S2 (DRM132)

PREREQUISITE: LA131 | Offered: Spring | .5 credit

Play Production I is a survey course of technical theatre covering set construction/safety, costumes, make-up, publicity/programs, lights/sound, props, house management, and play reading and analysis.

Theatre Arts II S1 (DRM229)

PREREQUISITE: LA130 | Offered: Fall | .5 credit

The course provides the opportunity for students to thoroughly investigate the subjects taught in Theatre Arts I. Areas of concentration will be theatre history, literature, acting and play production. Performance will be a major component of this course.

Theatre Arts II S2 (DRM230)

PREREQUISITE: LA229 | Offered: Spring | .5 credit

The course provides the opportunity for students to thoroughly investigate the subjects taught in Theatre Arts I. Areas of concentration will be theatre history, literature, acting and play production. Performance will be a major component of this course.

Play Production II S1 (DRM231)

PREREQUISITE: LA131 | Offered: Fall | .5 credit

This course provides students an opportunity to apply the skills learned in Play Production I. Students will participate in decision making, construction and crew supervision, and problem solving. Students will learn advanced methods in dealing with props, sets, lights/sound, costumes, make-up, and publicity/programs.

Play Production II S2 (DRM232)

PREREQUISITE: LA231 | Offered: Spring | .5 credit

This course provides students an opportunity to apply the skills learned in Play Production I. Students will participate in decision making, construction and crew supervision, and problem solving. Students will learn advanced methods in dealing with props, sets, lights/sound, costumes, make-up, and publicity/programs.

Theatre Arts III S1 (DRM329)

PREREQUISITE: LA230 | Offered: Fall | .5 credit

This course will begin to prepare the more serious theatre student with advanced concepts in performance and production. Also included will be an intro to playwriting, criticism, and auditioning. Students will explore forms of creative expression, performance styles, methods of acting, and artistic styles.

Theatre Arts III S2 (DRM330)

PREREQUISITE: LA329 | Offered: Spring | .5 credit

This course will begin to prepare the more serious theatre student with advanced concepts in performance and production. Also included will be an intro to playwriting, criticism, and auditioning. Students will explore forms of creative expression, performance styles, methods of acting, and artistic styles.

Play Production III S1 (DRM331)

PREREQUISITE: LA232 | Offered: Fall | .5 credit

Play Production III covers exploratory methods of script analysis, design work, and stage management. Students will use basic and advanced design and construction concepts to create a production.

Play Production III S2 (DRM332)

PREREQUISITE: LA232 | Offered: Fall | .5 credit

Play Production III covers exploratory methods of script analysis, design work, and stage management. Students will use basic and advanced design and construction concepts to create a production.

Theatre Arts IV:Direct/Mgmt S1 (DRM429)

PREREQUISITE: LA330 | Offered: Fall | .5 credit

In addition to intensive work in directing, design, and criticism, students in this course will be expected to make a significant contribution to the leadership of the Drama Department and will apply advanced theory to performance or technical work.

Theatre Arts IV:Direct/Mgmt S2 (DRM430)

PREREQUISITE: LA430 | Offered: Spring | .5 credit

In addition to intensive work in directing, design, and criticism, students in this course will be expected to make a significant contribution to the leadership of the Drama Department and will apply advanced theory to performance or technical work.

Play ProductionIV:Dsgn/Mgmt S1 (DRM431)

PREREQUISITE: LA332 | Offered: Fall | .5 credit

Students will assume the technical responsibility for a production including: Selection and analysis of the play, design for one tech area of the play, action plan, construction, final product, and critique of finished work.

Play ProductionIV:Dsgn/Mgmt S2 (DRM432)

PREREQUISITE: LA431 | Offered: Spring | .5 credit

Students will assume the technical responsibility for a production including: Selection and analysis of the play, design for one tech area of the play, action plan, construction, final product, and critique of finished work.

Visual Arts

The Des Moines Public Schools offer a comprehensive, hands-on approach to learning and mastering the skills in visual arts. Students who pursue an academic study of the visual arts will deepen their communications skills, define and solve creative problems with insight and technical ability, focus their critical analysis skills, and develop an informed acquaintance with exemplary works of art from a variety of cultures across historical periods and genres. Learning in the visual arts provides opportunities for students to broaden their life experience and become equipped with skills needed and valued in the 21st century.

Coordinator

Ben Heinen

Benjamin.heinen@dmschools.org

Intro 2D Art & 3D Art S1 (ART101)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This course is an introductory foundational level study of all visual art standards and requires no previous art experience. Students use a variety of media, techniques and processes to explore the Elements of Art and solve visual arts and creative problems. Students will engage in the creative process through planning, applying, and evaluating. This course is recommended for students considering careers requiring artistic skill. Satisfactory completion of this course is a prerequisite for all advanced art courses.

Intro 2D Art & 3D Art S2 (ART102)

PREREQUISITE: ART101 | Offered: Spring | .5 credit

This course is an introductory foundational level study of all visual art standards and requires no previous art experience. Students use a variety of media, techniques and processes to explore Elements of Art and Principles of Design, and solve visual arts and creative problems. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill. Satisfactory completion of this course is a prerequisite for all advanced art courses.

Intro to Art History S1 (ART105)

PREREQUISITE: NONE | Offered: Fall | .5 credit

In this course, students will develop a basic vocabulary for describing visual art, an understanding of the functions of imagery, and explore the role art has played throughout Western and Non-Western history and contemporary trends. The focus of this course is describing, exploring, and participating in the creative process in order to better understand the role of art in history. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art or future enrollment in the AP Art History course

Intro to Art History S2 (ART106)

PREREQUISITE: ART141 | Offered: Spring | .5 credit

In this course, students will develop a basic vocabulary for describing visual art, an understanding of the functions of imagery, and explore the role art has played throughout Western and Non-Western history and contemporary trends. The focus of this course is describing, exploring, and participating in the creative process in order to better understand the role of art in history. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art or future enrollment in the AP Art History course

Intro to Graphic Design S1 (ART141)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This course is an introduction to the principles and elements of graphic design. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engage in the creative process through planning, application, and evaluation of graphic design concepts.

Intro to Graphic Design S2 (ART142)

PREREQUISITE: ART141 | Offered: Spring | .5 credit

This course continues and deepens an introduction to the principles and elements of graphic design. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engage in the creative process through planning, application, and evaluation of graphic design concepts.

Drawing and Painting II S1 (ART201)

PREREQUISITE: ART102 | Offered: Fall | .5 credit

This course is a further exploration of Elements of Art and Principles of Design through the drawing and painting media such as acrylic, watercolor, oil pastels, and charcoal. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers requiring artistic skill. Satisfactory completion of ART101/ART102 is a prerequisite for this and all advanced course work. Art teacher may recommend waive of prerequisite when student portfolio demonstrates readiness for advanced course work.

Drawing and Painting II S2 (ART202)

PREREQUISITE: ART201 | Offered: Spring | .5 credit

This course is a further exploration of Elements of Art and Principle of Design through the drawing and painting media such as acrylic, watercolor, oil pastels and charcoal. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider concepts. This course is recommended for students considering careers requiring artistic skill. Satisfactory completion of ART101/ART102 is a prerequisite for this and all advanced course work. Art teacher may recommend waive of prerequisite when student portfolio demonstrates readiness for advanced coursework.

3D Design II S1 (ART211)

PREREQUISITE: ART102 | Offered: Fall | .5 credit

This course is a further exploration of the Elements of Art and Principles of Design through three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, and evaluating. This course is recommended for students considering careers requiring artistic skill. Satisfactory completion of ART101/ART102 is a prerequisite for this and all advanced course work. Art teacher may waive prerequisite when student portfolio demonstrates readiness for advanced coursework.

3D Design II S2 (ART212)

PREREQUISITE: ART211 | Offered: Spring | .5 credit

This course is a further exploration of the Elements of Art and Principles of Design through three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, and evaluating. This course is recommended for students considering careers requiring artistic skill. Satisfactory completion of ART101/ART102 is a prerequisite for this and all advanced course work. Art teacher may waive prerequisite when student portfolio demonstrates readiness for advanced coursework.

Hip-Hop High S1 (ART217)

PREREQUISITE: None | Offered: Fall | .5 credit

Hip-Hop High is committed to empowering students on their journey to understanding their individual identities within a larger community and system. By exploring urban art forms as a means for self-expression, students will enhance their learning regarding the evolution of language, the past's impact on the present, statistical divides concerning race and class, and self-image. The course aims to shed light on the circumstances faced by individuals living in urban settings, with the goal of inspiring youth to become necessary agents for positive change. Based in the principals of hip-hop culture, students will engage in the art-forms of emceeing, deejaying, graffiti and breakdancing, making connections to the core academic disciplines to showcase their learning and increase engagement in the academic process.

Hip-Hop High S2 (ART218)

PREREQUISITE: None | Offered: Spring | .5 credit

Hip-Hop High is committed to empowering students on their journey to understanding their individual identities within a larger community and system. By exploring urban art forms as a means for self-expression, students will enhance their learning regarding the evolution of language, the past's impact on the present, statistical divides concerning race and class, and self-image. The course aims to shed light on the circumstances faced by individuals living in urban settings, with the goal of inspiring youth to become necessary agents for positive change. Based in the principals of hip-hop culture, students will engage in the art-forms of emceeing, deejaying, graffiti and breakdancing, making connections to the core academic disciplines to showcase their learning and increase engagement in the academic process.

Photography I S1 (ART221)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This course is an introductory foundational level study of the Elements of Art and the Principles of Design through the medium of photography and requires no previous art experience. Students develop skills in basic camera operation, photographic processes, procedures, theory, and studio techniques. Students will engage in the creative process through exploring the camera as a tool and evaluating their work and the work of others. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, museum, object design, photojournalism, studio art, or visual communications.

Photography I S2 (ART222)

PREREQUISITE: ART221 | Offered: Spring | .5 credit

This course is an introductory foundational level study of the Elements of Art and Principles of Design through the medium of photography and requires no previous art experience. Students develop skills in basic camera operation, photographic processes, procedures, theory, and studio techniques. Students will engage in the creative process through exploring the camera as a tool and evaluating their own work and the work of others. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, museum, object design, photojournalism, studio art, or visual communications.

Advanced Photography S1 (ART225)

PREREQUISITE: ART222 | Offered: Fall | .5 credit

This course is an advanced level study of the Elements of Art and Principles of Design through the medium of photography for students who have mastered the basic photographic principles and process. Students will engage in the creative process and explore the camera as a tool by connecting work to wider contexts, planning, evaluating, and presenting. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, photojournalism, studio art, commercial art, or visual communications.

Advanced Photography S2 (ART226)

PREREQUISITE: ART225 | Offered: Spring | .5 credit

This course is an advanced level study of the Elements of Art and Principles of Design through the medium of photography for students who have mastered the basic photographic principles and process. Students will engage in the creative process and explore the camera as a tool by connecting work to wider contexts, planning, evaluating, and presenting. This course is recommended for students considering careers in animation, digital media, graphic design, illustration, multi-media, object design, photojournalism, studio art, commercial art, or visual communications.

Intermediate Art History S1 (ART231)

PREREQUISITE: ART105 | Offered: Fall | .5 credit

In this course, students will develop a deeper vocabulary for describing visual art, an understanding of the functions of imagery, and explore the role art has played throughout Western and Non-Western history and contemporary trends. The focus of this course is describing, exploring, and participating in the creative process in order to better understand the role of art in history. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art or future enrollment in the AP Art History course

Intermediate Art History S1 (ART232)

PREREQUISITE: ART 106 | Offered: Spring | .5 credit

In this course, students will develop a deeper vocabulary for describing visual art, an understanding of the functions of imagery, and explore the role art has played throughout Western and Non-Western history and contemporary trends. The focus of this course is describing, exploring, and participating in the creative process in order to better understand the role of art in history. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art or future enrollment in the AP Art History course

Intermediate Graphic Design S1 (ART241)

PREREQUISITE: ART142 | Offered: Fall | .5 credit

This course is a further exploration into visual communication through graphic design. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engaged in the creative process through planning, application, evaluation, and presentation of graphic design concepts.

Intermediate Graphic Design S2 (ART242)

PREREQUISITE: ART241 | Offered: Spring | .5 credit

This course is a deeper exploration into digital imaging and computer-based art. Students will explore different avenues of visual communication, self-expression, and creative problem-solving through the creation of commercial, interactive, and fine art. Students will engage in the creative process through planning, application, evaluation, and presentation of graphic design concepts.

Drawing and Painting III S1 (ART301)

PREREQUISITE: ART202 | Offered: Fall | .5 credit

This course is an advanced study of the Elements of Art and Principles of Design through the drawing and painting media. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider contexts. This course is recommended for students considering careers in architecture, art education, art history, graphic design, illustration, interior design, or studio art.

Drawing and Painting III S2 (ART302)

PREREQUISITE: ART301 | Offered: Spring | .5 credit

This course is an advanced study of the Elements of Art and Principles of Design through the drawing and painting media. Students will engage in the creative process through planning, applying, evaluating, and connecting art to wider concepts. This course is recommended for students considering careers in architecture, art education, art history, graphic design, illustration, interior design, or studio art.

3D Design III S1 (ART311)

PREREQUISITE: ART212 | Offered: Fall | .5 credit

This advanced course is a deeper exploration of the Elements of Art and Principles of Design through three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, evaluating, and connecting work to wider contexts. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art.

3D Design III S2 (ART312)

PREREQUISITE: ART311 | Offered: Spring | .5 credit

This advanced course is a deeper exploration of the Elements of Art and Principles of Design through three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, evaluating, and connecting work to wider contexts. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art.

Drawing and Painting IV S1 (ART401)

PREREQUISITE: ART302 | Offered: Fall | .5 credit

This advanced studio course is a study of personal expression using the Elements and Principles through the drawing and painting media. Students will engage in the creative process through planning, applying, evaluating, connecting and presenting art concepts. This course is recommended for students considering careers in architecture, art education, art history, graphic design, illustration, interior design, or studio art.

Drawing and Painting IV S2 (ART402)

PREREQUISITE: ART401 | Offered: Spring | .5 credit

This advanced studio course is a study of personal expression using the Elements and Principles through the drawing and painting media. Students will engage in the creative process through planning, applying, evaluating, connecting, and presenting art concepts. This course is recommended for students considering careers in architecture, art education, art history, graphic design, illustration, interior design, or studio art.

Honors 2D Art S1 (ART403)

PREREQUISITE: ART102 | Offered: Fall | .5 credit

This advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues.

Honors 2D Art S2 (ART404)

PREREQUISITE: ART403 | Offered: Spring | .5 credit

This advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues.

3D Design IV S1 (ART411)

PREREQUISITE: ART312 | Offered: Fall | .5 credit

This advanced course is a deeper exploration of personal expression with the Elements of Art and Principles of Design through three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, evaluating, presenting, and connecting work to wider contexts. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art.

3D Design IV S2 (ART412)

PREREQUISITE: ART411 | Offered: Fall | .5 credit

This advanced course is a deeper exploration of personal expression with the Elements of Art and Principles of Design through three dimensional sculptural media such as clay, wood, metals, fiber, paper, tile, glass, plaster, and mixed media. Students will engage in the creative process through planning, applying, evaluating, presenting, and connecting work to wider contexts. This course is recommended for students considering careers in architecture, art education, art history, ceramics, fashion design, interior architecture, interior design, landscape design, or studio art.

AP Studio Art S1 (ART501)

PREREQUISITE: None | Offered: Fall | .5 credit

This weighted, advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues. Completion of the AP exam is an expectation for all AP courses.

AP Studio Art S2 (ART502)

PREREQUISITE: None | Offered: Fall | .5 credit

This weighted, advanced level course emphasizes making art as an ongoing process that involves the students in critical decision making; helps students develop technical skills and familiarizes them with the functions of the visual elements. The course encourages systematic, creative, investigation of formal and conceptual issues. Completion of the AP exam is an expectation for all AP courses.

AP Art History S1 (ART503)

PREREQUISITE: None | Offered: Fall | .5 credit

In this course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn view and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. A meaningful way to experience works of art is learning to frame an understanding that relates how and why works of art communicate visual meaning. Completion of the AP exam is an expectation for all AP courses.

AP Art History S2 (ART504)

PREREQUISITE: None | Offered: Fall | .5 credit

In this course, students examine major forms of artistic expression from the ancient world to the present and from a variety of cultures. They learn view and analyze works of art within their historical context, and to articulate what they see or experience in a meaningful way. A meaningful way to experience works of art is learning to frame an understanding that relates how and why works of art communicate visual meaning. Completion of the AP exam is an expectation for all AP courses.

For additional art credit options, i.e. Commercial Photography, Graphic Communications, please see the Career & Technical Programs listed under Central Campus in this catalog.

Physical Education & Health Science

Physical Education is an important and unique part of the daily instructional program. Not only does it contribute to the overall goals of education, but it also contributes to the development and maintenance of fitness, motor skills, social skills, health, and brain development.

The Des Moines Public Schools provides a comprehensive curriculum that allows students choice in a planned sequential instructional program that teaches skills, knowledge and behaviors to promote lifelong fitness.

These are necessary to function at an adequate level of competence enabling each student to be an active, physically and mentally fit individual throughout life.

Contract PE Eligibility & Chapter 12 Guidance (COUNSELOR GUIDE ONLY):

12th grade students are eligible to enroll in Contract PE for 1 semester of their senior year provided they meet at least one of the following criteria:

- Student is involved in a work study or other educational program that requires the student's absence from school.
- Student is carrying a full academic schedule for the current semester.
- Student is involved in a school-sponsored athletic program or activity supervised by a staff member with a coaching endorsement.

9th-11th Grade: All other high school students are eligible to enroll in Contract PE provided they meet all of the following criteria:

- Student is carrying a full academic schedule for the current semester.
- Student has no physical education failures to make up from previous years.
- Student is involved in a school-sponsored athletic or activity supervised by a staff member with a coaching endorsement.

Once a student's eligibility to enroll has been determined using these criteria, they must complete a Contract Physical Education Student Application and secure the required signatures.

Coordinator

Carlye Satterwhite
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ext. 7241

Lifelong Rec Activities (PHY103)

PREREQUISITE : NONE | Offered: Fall/Spring | .5 credit

Students will learn a variety of rules, skills, and fundamentals and strategies in a variety of individual and dual sport activities. Safety and sportsmanship will be emphasized. Activities include but are not limited to: Badminton, pickle ball,

tennis, bowling, table tennis, and other individual and dual sports. District mandates fitness assessments will be administered in pre and post test form.

Team Games/Act & Sports (PHY105)

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

Students will learn a variety of rules, skills, fundamentals and strategies in multiple team activities. Safety and sportsmanship will be emphasized. Activities will include by not limited to: Basketball, Soccer, Volleyball, Floor Hockey, Lacrosse, Ultimate Games, Non-traditional Games, Flag Football, Diamond Sports. District mandated fitness assessments will be administered in pre and post test form.

Creative Contemporary Movement (PHY107)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This course will focus on the beginning to intermediate level kinesthetic and intellectual understanding of dance principles, terminology, and concert dance techniques. Areas of emphasis include, but are not limited to, ballet and modern dance. This course will offer an increased awareness of proper body alignment, balance, flexibility, strength and coordination as it pertains to dance and day-to-day living. Increase familiarity with anatomy and injury prevention. View a dance performance with a more educated eye and grateful heart. Execute dance combinations with correct sequence, quality and technique. This course is only offered to students who have been identified through the GT program. (Offered at Central Academy only)

Total Body Fitness & Cond LI (PHY109)

PREREQUISITE: NONE | Offered: Fall | .5 credit

This beginning course is designed to introduce proper lifting techniques, spotting methods, weight room safety, and workout routines. Activities will include but not limited to: a multitude of lifts utilizing free weights, machine weights, as well as an emphases on conditioning and fitness. District mandated fitness assessments will be administered in pre and post test form

Fitness Walking (PHY115)

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

This course is designed for students to improve cardiovascular fitness by walking. This course is completely activity based and suggested for those who are self-motivated. Various walking activities and assessments will be used throughout the class. Students will be expected to walk 2-3 miles per class period. This will allow students' the opportunity to participate in individual fitness activities that can be continued throughout one's lifetime. Activities include by not limited to: walking, heart rate monitoring, circuit training, treadmills, time laps/stairs, time mile, pedometers/activity monitors, walking bands. District mandated fitness assessments will be administered in pre and post test form.

Unified Peer PE (PHY117)

PREREQUISITE: NONE | Offered: Fall/Spring | Credit: .5

This course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sport. Students will work together to increase competence and confidence in a variety of physical activities. Unified Peer PE is planned and implemented to provide each student access to physical education grade-level outcomes and standards while making necessary accommodations. Through ongoing leadership

opportunities, members of this course will be empowered to help create a more inclusive and accepting school environment for all students.

High Intensity Physical Fit (PHY120)

PREREQUISITE: NONE | Offered: Fall/Spring | Credit: .5

Students will learn about health and nutrition, knowledge of lifetime wellness and fitness will be covered and emphasized. Activities include but not limited to: Circuit training, weight resistance, free weights, resistance bands, group fitness classes, designing a fitness class, and fitness technology. District mandated fitness assessments will be administered in pre and post test form.

Innovative Fitness (PHY131)

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

Whether you are looking to improve your overall physique, gain strength, and flexibility, or live a healthier lifestyle, Innovative Fitness Class will aid you in your goals and expectations. This program provides opportunities for introductions to fitness skills and knowledge to help develop personal workout plans. Students must be willing to workout at an intense cardio level, break a sweat, and expect a body transformation. Activities include but are not limited to: Yoga, fitness technology, aerobics, bosu-trainers, CrossFit, creative dance, fitness assessment, jump roping, kick boxing, medicine balls, and weight resistance.

Total Body Fitness & Cond LII (PHY209)

This advanced course is designed to build upon proper lifting techniques, spotting methods, weight room safety, and work out routines. Activities will include but not limited to: Fitness Plan, Advanced strength exercises, SMART goals, student logs, basic nutrition, hydration, adjustment of pace, power building, Olympic lifts, fitness portfolio, analyzes the components skill-related fitness in reaction to life and career goals, and designs an appropriate fitness program to meet their goals. District mandated fitness assessments will be administered in pre and post-test form.

Psychology of Health & Fit (PHY227)

PREREQUISITE: 1 year prior Physical Education courses | Offered: Fall/Spring | .5 credit

Within this course we will be providing an overview to help students develop a relationship with exercise and lifelong fitness. Psychology of Health and Fitness course will introduce the field of psychology and the relationship between health and exercise. This course will cover a wide range of topics and skills that will improve an overall healthy lifestyle. Activities can include but not limited to: mental toughness, goal-setting, motivation, injury prevention, training principals, schedules, and stress management. District mandated fitness assessments will be administered in pre and post test form.

Lifeguarding (PHY235)

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

This course will offer instruction to students through the American Red Cross lifeguarding curriculum. Throughout this course lifeguard candidates and lifeguards will be taught with the necessary skills and knowledge needed to prevent and respond to aquatic emergencies. Students will be given the opportunity to receive lifeguard certification after successful completion of this course. Students will learn CPR and First Aid. District mandated fitness assessments will be administered in a pre and post test form.

Aquatics (PHY241)

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

Students will gain an awareness of the importance of water safety training and to provide general information on being safe in, on, and around water. Students will work on their coordination and refinement of strokes. Students will participate, assess, and improve levels of flexibility, cardiovascular fitness, muscular strength, endurance, and body composition. CPR has been mandated by the state and may be included in the curriculum. Activities can include but not limited to: pool rules, safety/expectations, water injuries, deck rescues/in water rescues, introduction to water skills, fundamental aquatic skills and stroke techniques.

Methods of Elementary PE (PHY319)

PREREQUISITE: GPA 2.5 or higher, Grade 11 or 12 | Offered: Fall/Spring | .5 credit

Students will learn first-hand elementary career expectations and experiences through this advanced study of the developmental approach to teaching elementary physical education in urban schools. Beginning movement concepts and fundamental motor skills are discussed in relation to developmentally appropriate elementary grade-level outcomes and standards. Students will plan and implement instructional teaching cycles using the elementary PE curriculum guide, focusing on skills and knowledge development in gymnastics, striking with a long/short implement, fitness activities/assessments, weight transfer, jump roping, locomotors, over and underhand toss/roll, striking overhand, dribbling with feet/hands, and catching. Students will acquire field experience through classroom observations and complete a practicum component with necessary teaching experts. Offered at Central Campus only.

Bowling (PHY331)

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

Students will learn approaches, release, etiquette, clothing, rules, scoring, and safety. Activities can include but not limited to: line bowling, league play, baker style tournament, pin and spot bowling. District mandated fitness assessments will be administered in pre and post test form.

Sports Officiating & Leadership (PHY327 /PHY328)

PREREQUISITE: 2 years prior Physical Education courses | Offered: Spring | .5 credit

There is an ever-growing need for qualified sports officials - from amateur to professional sports - and in this program, students learn the purpose, procedures, and requirements of success in officiating . Students learn the mechanics and consistency required for working multiple team and individual sports.

Contract PE (PHY901) counselor only

PREREQUISITE: NONE | Offered: Fall/Spring | .5 credit

Contract PE is only for those students who are carrying a full schedule of required academic classes in order to meet minimum graduation requirements. Please see school counselor and PE department chair for further details, qualifications, and acceptable athletic programs in which the student may participate. Students will log physical activity and utilize the goal setting feature through the online database daily fit log, to motivate and set challenging and realistic goals.

Medical Exemption (PHY907) counselor only

This code is used for students who are medically excused from Physical Education. In order to be considered medically excused the student will need to have doctor documentation and the current medical excused form filled out and put into the students' cum folder. Medical Excused form can be found at pe.dmschools.org/high-school-pe.html under the PE Department Programming Guidance Documentation files.

World Languages

Des Moines Public Schools seeks to provide students with the opportunity to develop and maintain proficiency in world languages as well as in intercultural competence. Goals for the district's world language curriculum include:

- Students should be able to use the target language in the three communicative modes: interpersonal (person-to-person), presentational (person to audience), and interpretive (comprehending and critically analyzing authentic spoken, written, and visual materials).
- Students should be able to compare and make connections to culturally relevant products, perspectives, and practices.
- Students should engage in cultural inquiry, analytically investigating global topics, deciding the best alternative, and using evidence from authentic sources as support.
- Students should start and maintain real-life, spontaneous spoken and written conversations on a variety of topics.

DMPS offers more world language classes than anywhere else in Iowa. World language options include: Arabic, Chinese, French, German, Italian, Japanese and Spanish. All of our courses are based on national standards set forth by the American Council on the Teaching of Foreign Languages.

Interim Coordinator

Becca Lindahl
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French I S1 (WL103)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Students in the first year engage in exploration of culture in French-speaking countries in order to gain basic intercultural competence. Students will speak, read, write, and listen in French using basic vocabulary and simple grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make

connections and comparisons on topics such as identities, families, and education. By the end of the year, students should be able to communicate at a Novice High Level (per the ACTFL Proficiency Guidelines).

French I S2 (WL104)

PREREQUISITE: WL103 | Offered: Spring | .5 credit

Students in the first year engage in exploration of culture in French-speaking countries in order to gain basic intercultural competence. Students will speak, read, write, and listen in French using basic vocabulary and simple grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as identities, families, and education. By the end of the year, students should be able to communicate at a Novice High Level (per the ACTFL Proficiency Guidelines).

Spanish I S1 (WL111)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Students in the first year engage in exploration of culture in Spanish-speaking countries in order to gain basic intercultural competence. Students will speak, read, write, and listen in Spanish using basic vocabulary and simple grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as identities, families, interests and everyday activities. By the end of the year, students should be able to communicate at a Novice High Level (per the ACTFL Proficiency Guidelines).

Spanish I S2 (WL112)

PREREQUISITE: WL111 | Offered: Spring | .5 credit

Students in the first year engage in exploration of culture in Spanish-speaking countries in order to gain basic intercultural competence. Students will speak, read, write, and listen in Spanish using basic vocabulary and simple grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as identities, families, interests and everyday activities. By the end of the year, students should be able to communicate at a Novice High Level (per the ACTFL Proficiency Guidelines).

Chinese I S1 (WL129 IB)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Students in the first year engage in exploration of culture in Chinese-speaking countries in order to gain basic intercultural competence. Students will speak, read, write, and listen in Chinese using basic vocabulary and simple grammatical structures. Chinese characters are introduced early on to provide the necessary foundation for later study. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as identities, families, and education. By the end of the year, students should be able to communicate at a Novice Mid Level (per the ACTFL Proficiency Guidelines).

Chinese I S2 (WL130IB)

PREREQUISITE: WL129 | Offered: Spring | .5 credit

Students in the first year engage in exploration of culture in Chinese-speaking countries in order to gain basic intercultural competence. Students will speak, read, write, and listen in Chinese using basic vocabulary and simple grammatical structures. Chinese characters are introduced early on to provide the necessary foundation for later study. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as identities, families, and education. By the end of the year, students should be able to communicate at a Novice Mid Level (per the ACTFL Proficiency Guidelines).

French II S1 (WL203)

PREREQUISITE: WL104 or WL117 | Offered: Fall | .5 credit

Students in the second year continue to engage in exploration of culture in French-speaking countries in order to gain intercultural competence. Students will speak, read, write, and listen in French using basic to intermediate vocabulary and grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as communities, activities, environment and celebrations. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

French II S2 (WL204)

PREREQUISITE: WL104 or WL117 | Offered: Fall | .5 credit

Students in the second year continue to engage in exploration of culture in French-speaking countries in order to gain intercultural competence. Students will speak, read, write, and listen in French using basic to intermediate vocabulary and grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as communities, activities, environment and celebrations. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

Spanish II S1 (WL211)

PREREQUISITE: WL112 or WL115 | Offered: Spring | .5 credit

Students in the second year continue to engage in exploration of culture in Spanish-speaking countries in order to gain intercultural competence. Students will speak, read, write, and listen in Spanish using basic to intermediate vocabulary and grammatical structures. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as relationships, the arts, and environmental issues. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

Spanish II S2 (WL212)

PREREQUISITE: WL211 | Offered: Spring | .5 credit

Students in the second year continue to engage in exploration of culture in Spanish-speaking countries in order to gain intercultural competence. Students will speak, read, write, and listen in Spanish using basic to intermediate vocabulary and grammatical structures. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as relationships, the arts, and environmental issues. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

Heritage Spanish I S1 (WL413)

PREREQUISITE: None | Offered: Fall | .5 credit

Spanish for Heritage Learners I is a course tailored to meet the needs of students who have had exposure to Spanish in the home/community and who need to advance their Spanish skills in different ways than students who are learning Spanish as a new language. Students will explore the culture of Spanish-speaking countries in order to gain advanced intercultural competence. Students will speak, read, write, and listen in Spanish at an advanced level. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as entertainment, environmental issues, and the effects of technology on self and society. By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL

Proficiency Guidelines). This course may be taken before or after Heritage 2 as both courses are differentiated to meet the various strengths/needs of the learners.

Heritage Spanish I S2 (WL414)

PREREQUISITE: WL213 | Offered: Spring | .5 credit

Spanish for Heritage Learners I is a course tailored to meet the needs of students who have had exposure to Spanish in the home/community and who need to advance their Spanish skills in different ways than students who are learning Spanish as a new language. Students will explore the culture of Spanish-speaking countries in order to gain advanced intercultural competence. Students will speak, read, write, and listen in Spanish at an advanced level. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as entertainment, environmental issues, and the effects of technology on self and society. By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL Proficiency Guidelines). This course may be taken before or after Heritage 2 as both courses are differentiated to meet the various strengths/needs of the learners.

Chinese II S1 (WL231IB)

PREREQUISITE: WL21 | Offered: Fall | .5 credit

Students in the second year continue to engage in exploration of culture in Spanish-speaking countries in order to gain intercultural competence. Students will speak, read, write, and listen in Spanish using basic to intermediate vocabulary and grammatical structures. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as relationships, the arts, and environmental issues. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

Chinese II S2 (WL232 IB)

PREREQUISITE: WL231 | Offered: Spring | .5 credit

Students in the second year continue to engage in exploration of culture in Spanish-speaking countries in order to gain intercultural competence. Students will speak, read, write, and listen in Spanish using basic to intermediate vocabulary and grammatical structures. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as relationships, the arts, and environmental issues. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

French III S1 (WL303)

PREREQUISITE: WL204 or WL218 | Offered: Fall | .5 credit

Students in the third year continue to engage in exploration of culture in French-speaking countries in order to gain intermediate intercultural competence. Students will speak, read, write, and listen in French using intermediate vocabulary and grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as home life, travel, and food. By the end of the year, students should be able to communicate at the Intermediate Mid Level (per the ACTFL Proficiency Guidelines).

French III S2 (WL304)

PREREQUISITE: WL303 | Offered: Spring | .5 credit

Students in the third year continue to engage in exploration of culture in French-speaking countries in order to gain intermediate intercultural competence. Students will speak, read, write, and listen in French using intermediate vocabulary and grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as home life, travel, and food. By the end of the year, students should be able to communicate at the Intermediate Mid Level (per the ACTFL Proficiency Guidelines).

Spanish III S1 (WL311)

PREREQUISITE: WL212 or WL216 | Offered: Fall | .5 credit

Students in the third year continue to engage in exploration of culture in Spanish-speaking countries in order to gain intermediate intercultural competence. Students will speak, read, write, and listen in Spanish using intermediate vocabulary and grammatical structures. Units in first semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as personal beliefs, customs and values, and language and literature. By the end of the year, students should be able to communicate at the Intermediate Mid Level (per the ACTFL Proficiency Guidelines).

Spanish III S2 (WL312)

PREREQUISITE: WL311 | Offered: Spring | .5 credit

Students in the third year continue to engage in exploration of culture in Spanish-speaking countries in order to gain intermediate intercultural competence. Students will speak, read, write, and listen in Spanish using intermediate vocabulary and grammatical structures. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as personal beliefs, education and communities, and language and literature. By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL Proficiency Guidelines).

Heritage Spanish II S1 (WL417)

PREREQUISITE: Heritage Learner of Spanish | Offered: Fall | .5 credit

Spanish for Heritage Learners II is a course tailored to meet the needs of students who have had exposure to Spanish in the home/community and who need to advance their Spanish skills in different ways than students who are learning Spanish as a new language. Students will explore the culture of Spanish-speaking countries in order to gain advanced intercultural competence. Students will speak, read, write, and listen in Spanish at an advanced level. Units in first semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as travel and leisure, population demographics and social conscience, and health care and medicine. By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL Proficiency Guidelines). This course may be taken before or after Heritage 1 as both courses are differentiated to meet the various strengths/needs of the learners.

Heritage Spanish II S2 (WL418)

PREREQUISITE: Heritage Learner of Spanish | Offered: Spring | .5 credit

Spanish for Heritage Learners II is a course tailored to meet the needs of students who have had exposure to Spanish in the home/community and who need to advance their Spanish skills in different ways than students who are learning Spanish as a new language. Students will explore the culture of Spanish-speaking countries in order to gain advanced intercultural competence. Students will speak, read, write, and listen in Spanish at an advanced level. Units in second semester focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as entertainment, environmental issues, and the effects of technology on self and society. By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL Proficiency Guidelines). This course may be taken before or after Heritage 1 as both courses are differentiated to meet the various strengths/needs of the learners.

Chinese III S1 (WL331IB)

PREREQUISITE: WL 233 | Offered: Fall | .5 credit

Students in the third year continue to engage in exploration of culture in Chinese-speaking countries in order to gain intermediate intercultural competence. Students will speak, read, write, and listen in Chinese using intermediate vocabulary and grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as personal beliefs, customs and values, and language and literature. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

Chinese III S2 (WL332 IB)

PREREQUISITE: WL 331 | Offered: Spring | .5 credit

Students in the third year continue to engage in exploration of culture in Chinese-speaking countries in order to gain intermediate intercultural competence. Students will speak, read, write, and listen in Chinese using intermediate vocabulary and grammatical structures. Units focus on global themes targeted to provide opportunities for students to communicate and make connections and comparisons on topics such as personal beliefs, customs and values, and language and literature. By the end of the year, students should be able to communicate at the Intermediate Low Level (per the ACTFL Proficiency Guidelines).

***AP Spanish IV S2 (WL516)**

PREREQUISITE: WL515 | Offered: Spring | .5 credit

The AP Spanish Language and Culture course emphasizes building communication skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. Students will engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices, and perspectives. By the end of the year, students should be able to communicate at the Intermediate High-Advanced Low Level (per the ACTFL Proficiency Guidelines).

***AP Spanish V S2 (WL518)**

PREREQUISITE: WL517 | Offered: Spring | .5 credit

The AP Spanish Language and Culture course emphasizes building communication skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. Students will engage in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products, practices, and perspectives. By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL Proficiency Guidelines).

***AP Spanish Lit S2 (WL524)**

PREREQUISITE: WL515 or higher or Heritage Language Learner | Offered: Spring | .5 credit

The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the full range of the modes of communication (interpersonal, presentational, and interpretive), honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, as students reflect on the many voices and cultures present in the required readings. The course also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, and literary criticism). By the end of the year, students should be able to communicate at the Advanced Level (per the ACTFL Proficiency Guidelines).

World Language Courses Offered at Central Academy

For complete information about Central Academy programming and courses, please see the dedicated section in this document or visit <http://ca.dmschools.org/>

COURSE NUMBER AND NAMES			
WL 181	Arabic 1 S1	WL 203A	French 2 S1
WL 182	Arabic 1 S2	WL 204A	French 2 S2
WL 281	Arabic 2 S1	WL 271	French 152 S1
WL 282	Arabic 2 S2	WL 272	French 152 S2
WL 381	Arabic 3 S1	WL 503	AP French IV* S1
WL 382	Arabic 3 S2	WL 504	AP French IV* S2
WL 129	Chinese I S1	WL 505	AP French V* S1
WL 130	Chinese I S2	WL 506	AP French V* S2
WL 231	Chinese II S1	WL 541A	IB French B SL* S1
WL 233	Chinese II* S2	WL 542A	IB French B SL* S2
WL 331	Chinese III* 1 S1	WL 543A	IB French B SL* S3
WL 333	Chinese III* S2	WL 544A	IB French B SL* S4
WL 335	Chinese IV* S1	WL 555A	IB Spanish Ab Initio* S1
WL 337	Chinese IV* S2	WL 556A	IB Spanish Ab Initio* S2
WL 577A	IB Chinese Ab Initio* S1	WL 557	IB Spanish Ab Initio* S3
WL 578A	IB Chinese Ab Initio* S2	WL 558	IB Spanish Ab Initio* S4

WL 579A	IB Chinese Ab Initio* S3	WL 551	IB Spanish SL* S1
WL 580A	IB Chinese Ab Initio* S4	WL 552	IB Spanish SL* S2
WL 161	Japanese I S1	WL 553	IB Spanish SL* S3
WL 162	Japanese I S2	WL 554	IB Spanish SL* S4
WL 261	Japanese II S1	WL 151	Italian I S1
WL 263	Japanese II* S2	WL 152	Italian I S2
WL 361	Japanese III* S1	WL 251	Italian II S1
WL 363	Japanese III* S2	WL 253	Italian II* S2
WL 365	Japanese IV* S1	WL 351	Italian III* S1
WL 367	Japanese IV* S2	WL 353	Italian III* S2
WL 141	German I S1	WL 355	Italian IV* S1
WL 142	German I S2	WL 357	Italian IV* S2
WL 241	German II S1	WL 271	French 152 S1
WL 243	German II* S2	WL 272	French 152 S2
WL 341	German III* S1	WL 503	AP French IV* S1
WL 343	German III* S2	WL 504	AP French IV* S2
WL 345	German IV* S1	WL 505	AP French V* S1
WL 347	German IV* S2	WL 506	AP French V* S2
WL 117A	French 1 S1	WL 541A	IB French B SL* S1
WL 118A	French 1 S2	WL 542A	IB French B SL* S2

Career & Technology Education

Through our career and technical education programs, Des Moines Public Schools equips students with the knowledge and skills necessary for college, career and for life. College and career readiness include three major skill areas; core academic skills, employability skills, and technical, job-specific skills. Students are able to apply these necessary skills to rigorous, authentic situations, allowing them to understand the real-world applications.

In addition, Des Moines is home to the nationally-renowned Career & Technical Institute at Central Campus, providing students with highly-technical, college-level courses. For courses and programming housed at Central Campus, students will need to connect with their school counselor to seek admission through the processes outlined in the Educational Programs section of this document or on the Central Campus website at <http://centralcampus.dmschools.org>. Career & Technical Education courses delivered at home high schools have no admissions requirements beyond the prerequisites listed with the course description.

Coordinator

Connie Sievers

connie.sievers@dmschools.org

Business / Technology

Future Ready: Acad Career Plan (CTE101)

Prerequisite: NONE | Offered Fall or Spring | .5 credit

Future Ready will direct students in career and academic planning. Students will be exposed to all types of postsecondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after high school, wherever their path may lead!

Tech Seminar (BUS101)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

In Tech Seminar, students will learn/review the touch-typing method of keyboarding while learning the fundamental use of the computer. Microsoft programs and Internet researching will be included. Students will learn about personal, career, and life management financial issues.

Intro to Business (BUS103)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Introduction to Business offers students the opportunity to examine a variety of careers in the business and marketing area. The course will include some activities designed to help students assess their interests, aptitudes, and abilities and match them with the requirements of various occupations. Activities such as resume writing, interviewing, problem solving, and working with groups will be included in order to help students develop skills to obtain and keep a job.

General Business (BUS105)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

General Business is designed to enhance students' understandings of the role businesses play in our present-day economic system. Topics include: banking, careers, insurance, personal investment, consumerism, credit and marketing.

Fund of Word Processing (BUS109)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Fundamentals of Word Processing is designed to assist students who have had a limited experience with keyboarding. Students will learn to master the keyboard including the 10-key keypad, build speed and accuracy, use good technique, and format basic documents.

Beginning Computer Apps (BUS111)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Beginning Computer Applications is designed specifically for students new to computer applications and/or new to the English language. Students will be introduced to word processing, database, presentation, and spreadsheet functions. Students will complete projects in each topic. This course will help students to develop skills needed for both professional, educational, and personal use.

PLTW: Intro to Computer Sci (TEC161)

Prerequisite: NONE | .5 credit

Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science Program. Students work in teams to create apps for mobile devices using MIT App Inventor. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python and apply their knowledge to create algorithms for games of chance and strategy.

Future Set: Acad Career Plan (CTE301)

Prerequisite: NONE | .5 credit

Starting to feel nervous about graduating and moving out on your own? Do you feel ready for that next step after high school? Are you worried about handling life on your own? Future Set is a student driven curriculum course that is designed to answer all of your burning questions about life after high school! This course will cover post-secondary education/training, career readiness, housing decisions and personal financial decision making to make you successful as you navigate the world of adulthood.

Accounting 1 (BUS301)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

An understanding of the purpose of the accounting function will be developed during Accounting 1. This course will also assist students in the development of a vocabulary and in the acquisition of the skills and general information necessary to perform the accounting function. If you would like to earn DMACC concurrent college credit, enroll in BUS533.

Marketing / Principles (BUS311)

PREREQUISITE: NONE | Offered: Every other year | .5 credit

This course will provide a broad overview of the marketing process and the role that marketing plays in our lives. Various marketing functions such as research, transportation, warehousing, advertising, promotion, pricing and selling will be studied. There will be a heavy emphasis on occupational opportunities and requirements in each area.

Marketing / Retail (BUS312)

PREREQUISITE: NONE | Offered: Every other year | .5 credit

This course is designed to prepare students for employment or future education in the area of retail marketing. Specific topics studied include site selection, store layout, display, promotion, advertising, pricing, discounting, warehousing, ordering, special sales, selling, and control of merchandise and receipts. Careers in retailing will also be investigated thoroughly. Personal and workplace human relation skills will be studied.

Marketing / Sales (BUS313)

PREREQUISITE: NONE | Offered: Every other year | .5 credit

The emphasis of this course will be on selling techniques and human relations skills needed by salespeople. All aspects of the selling process, from preparation to closing and follow-up, will be examined and practiced. Selling as a career will be investigated, and job-seeking skills will be developed. To earn college credit please enroll in BUS529.

Marketing / Entpr (BUS314)

PREREQUISITE: NONE | Offered: Every other year | .5 credit

The steps necessary when starting and managing a business will be covered in this course. The relationship of information-gathering and decision-making in business organization and management is emphasized. Personal traits and characteristics of entrepreneurs and managers will be investigated. The nature of risk and the role it and management play in our economy will be studied. Management styles and philosophies will be discussed through the use of guest entrepreneurs. To earn college credit please enroll in BUS530.

Business Law (BUS321)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The main objective of this course is to help students understand the basic legal principles relevant to each individual's personal and professional life. Topics include the law relating to youth rights and responsibilities, drugs, contracts, property, credit, insurance, investments, auto negotiable instruments, and ailments. Emphasis will be placed on helping students recognize those situations that occur in life that require assistance from legal professionals.

Personal Finance Mgmt (BUS323)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Students will study the management of personal, family and business finances, including budgeting, consumer buying, personal credit, savings and investing, home ownership, insurance, and retirement. This course will help prepare all students for their financial challenges now and in the future. If you would like to earn DMACC concurrent college credit, enroll in BUS523.

International Business (BUS325)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

International Business will present students with a better understanding of today's global economy. It will raise the student's awareness of how political policies and economic practices may impact other countries. Students will learn to use appropriate communication skills and strategies to improve international business relations. They will gain an understanding of how the global business environment is connected through politics, cultures, legal systems, economies and through ethics. Lastly students will learn the basic concepts of international finance, management practices, marketing, trade relations, basic forms of business ownership and business opportunities internationally.

Computer Applications (BUS333)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Computer Applications 2 includes modern information processing techniques with a heavy emphasis on the use of electronic databases and spreadsheets. The course also stresses the importance of human relations and communication skills necessary for job success, the development of marketable skills using the most current procedures and technologies, and application of time management and decision-making skills. If you would like to earn DMACC concurrent college credit, enroll in BUS531.

Desktop Publishing (BUS335)

PREREQUISITE: BUS111 | Offered: Fall or Spring | .5 credit

This course stresses the in-house preparation of documents, brochures, leaflets, and newspapers. Current procedures and technologies will be used while stressing the importance of communication skills. Individual and group projects will be completed for inclusion in their personal employment portfolios. If you would like to earn DMACC concurrent college credit, enroll in BUS527.

PowerPoint & Multimedia (BUS337)

PREREQUISITE: BUS111 | Offered: Fall or Spring | .5 credit

The use of PowerPoint presentation software and the Internet are used during this course. Students will learn how to create electronic presentations using a variety of software, basic web pages, computer animation, and effectively search for information using the Internet. Students will also use computer peripherals such as the scanner, digital camera, and computer projection devices. If you would like to earn DMACC concurrent college credit, enroll in BUS525.

Intro to Website (BUS339)

PREREQUISITE: BUS111 or Instructor Approval | Offered: Fall or Spring | .5 credit

This course introduces the student to basic concepts, languages and tools used in the development of an Ecommerce website. Students will identify effective design concepts and characteristics of successful websites. During the course students will be introduced to HTML and DHTML concepts and technologies including HTML, XHTML, CSS, JavaScript and the Document Object Model. Students will use current tools and techniques to design and create commercially oriented websites. If you would like to earn DMACC concurrent college credit, enroll in BUS521.

***College Intro to Website (BUS521)**

PREREQUISITE: BUS111 and Instructor Approval | Offered: Fall or Spring | .5 credit

This course introduces the student to basic concepts, languages and tools used in the development of an Ecommerce website. Students will identify effective design concepts and characteristics of successful websites. During the course students will be introduced to HTML and DHTML concepts and technologies including HTML, XHTML, CSS, JavaScript and the Document Object Model. Students will use current tools and techniques to design and create commercially oriented websites. This course offers DMACC concurrent enrollment credit.

***College Pers Finance Mgmt (BUS523)**

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Students will study the management of personal, family and business finances, including budgeting, consumer buying, personal credit, savings and investing, home ownership, insurance, and retirement. This course will help prepare all students for their financial challenges now and in the future. This course offers DMACC concurrent enrollment credit.

***College PowerPt & Multimedia (BUS525)**

PREREQUISITE: BUS111 | Offered: Fall or Spring | .5 credit

The use of PowerPoint presentation software and the Internet are used during this course. Students will learn how to create electronic presentations using a variety of software, basic web pages, computer animation, and effectively search for information using the Internet. Students will also use computer peripherals such as the scanner, digital camera, and computer projection devices. This course offers DMACC concurrent enrollment credit.

***College Desktop Publishing (BUS527)**

PREREQUISITE: BUS111 | Offered: Fall or Spring | .5 credit

This course stresses the in-house preparation of documents, brochures, leaflets, and newspapers. Current procedures and technologies will be used while stressing the importance of communication skills. Individual and group projects will be completed for inclusion in their personal employment portfolios. This course offers DMACC concurrent enrollment credit.

***College Marketing / Sales (BUS529)**

PREREQUISITE: NONE | Offered: Every other year | .5 credit

The emphasis of this course will be on selling techniques and human relations skills needed by salespeople. All aspects of the selling process, from preparation to closing and follow-up, will be examined and practiced. Selling as a career will be investigated, and job-seeking skills will be developed. This course offers DMACC concurrent enrollment credit.

***College Marketing / Entpr (BUS530)**

PREREQUISITE: NONE | Offered: Every other year | .5 credit

The steps necessary when starting and managing a business will be covered in this course. The relationship of information-gathering and decision-making in business organization and management is emphasized. Personal traits and characteristics of entrepreneurs and managers will be investigated. The nature of risk and the role it and management play in our economy will be studied. Management styles and philosophies will be discussed through the use of guest entrepreneurs. This course offers DMACC concurrent enrollment credit.

***College Computer Applications (BUS531)**

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Computer Applications 2 includes modern information processing techniques with a heavy emphasis on the use of electronic databases and spreadsheets. The course also stresses the importance of human relations and communication skills necessary for job success, the development of marketable skills using the most current procedures and technologies, and application of time management and decision-making skills. This course offers DMACC concurrent enrollment credit.

***College Accounting (BUS533)**

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

An understanding of the purpose of the accounting function will be developed during Accounting 1. This course will also assist students in the development of a vocabulary and in the acquisition of the skills and general information necessary to perform the accounting function. This course offers DMACC concurrent enrollment credit after BUS534 is completed.

Family and Consumer Sciences

Future Ready: Academic & Career Planning (CTE101)

Prerequisite: NONE | Offered Fall or Spring | .5 credit

Future Ready will direct students in career and academic planning. Students will be exposed to all types of postsecondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after high school, wherever their path may lead!

Personal Health & Development (FCS101)

Personal Development & Health is a course designed to provide students with information about how to develop a healthy lifestyle. The topics included are self-concept, nutrition, exercise, substance usage and sexuality. Students will apply the decision making process to health choices and examine the interrelation between physical, emotional, mental and social health.

Parenting: Conception-Toddler (FCS103)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Previously named: Child Development This course will include sexual health, conception, pregnancy and birth. Students will examine the decisions and responsibilities that go into planning a pregnancy. Students will develop skills in the care and guidance of children from birth through toddler. Students will participate in many activities designed to simulate the physical, social, emotional, and intellectual development of children.

Nutrition & Food Prep 1 (FCS107)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

In Nutrition and Food Prep I, students will apply nutrition principles to personal diet planning; develop skills in the selection, care and preparation of a variety of food. Labs are designed to help students learn safe food preparation techniques.

Nutrition & Food Prep 2 (FCS109)

PREREQUISITE: FCS107 | Offered: Fall or Spring | .5 credit

In Nutrition and Food Prep II, students will develop skills in meal management to meet individual and family food needs and understand principles of economics and ecology for cost savings.

Sewing Technology 1 (FCS113)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Sewing Technology I teaches sewing basics to construct clothing and textile products using appropriate equipment and techniques. Students may choose to purchase materials, patterns and notions throughout the semester for individual projects.

Health: Relationships (FCS201)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The Relationships course prepares students for a mature adult role as a single person or a marriage partner through the study of human development and relationships. The coordination of personal, marriage, family and career goals will be explored as well as resources for adjusting to change and crisis. Students will analyze skills needed to establish positive relationships with others.

Parenting: Preschool-Adolescent (FCS203)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Students will develop skills in the care and guidance of children from preschool to adolescent. Students will examine various type of parenting styles and determine which styles are most effective. Students will participate in many activities designed to simulate the physical, social, emotional, and intellectual development of preschool children and teens.

Sewing Technology 2 (FCS205)

PREREQUISITE: FCS113 | Offered: Fall or Spring | .5 credit

In Sewing Technology II, students will experiment with more advanced sewing techniques. Students will select individual projects based upon their skill level and interest. Students may choose to purchase and bring materials, patterns and notions throughout the semester for individual projects.

Housing & Design Industry (FCS207)

Pre-Requisites: None

In this course students will analyze career pathways and opportunities for employment and entrepreneurial endeavors in the housing industry. Students will explore interior design, exterior design, housing decisions, and housing trends

G.R.A.D.S. I S1 (FCS211)

PREREQUISITE: NONE | Offered: Fall | .5 credit

G.R.A.D.S. (Graduation, Reality, Dual-Role Skills) is designed for pregnant students and young parents to assist them in developing knowledge and skills related to pregnancy, parenting of young children, economic independence, and goal setting toward balancing work and family.

G.R.A.D.S. I S2 (FCS212)

PREREQUISITE: NONE | Offered: Spring | .5 credit

G.R.A.D.S. (Graduation, Reality, Dual-Role Skills) is designed for pregnant students and young parents to assist them in developing knowledge and skills related to pregnancy, parenting of young children, economic independence, and goal setting toward balancing work and family.

Fashion Runway (FCS213)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Students in Fashion Careers will explore fashion careers by doing projects similar to those done in the fashion industry, careers included are fashion designer, marketing, fashion magazine writing. Textile science, fashion promotion and planning a fashion show are also part of this course.

Future Set: Academic & Career Planning (CTE301)

Prerequisite: NONE | .5 credit

Starting to feel nervous about graduating and moving out on your own? Do you feel ready for that next step after high school? Are you worried about handling life on your own? Future Set is a student driven curriculum course that is designed to answer all of your burning questions about life after high school! This course will cover post-secondary education/training, career readiness, housing decisions and personal financial decision making to make you successful as you navigate the world of adulthood.

Advanced Sewing Technology 3 (FCS305)

PREREQUISITE: FCS205 | Offered: Fall or Spring | .5 credit

In Advanced Sewing Technology III, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects.

G.R.A.D.S. II S1 (FCS311)

Offered: Fall | .5 credit

Graduation, Reality, Dual-Role Skills is designed for pregnant students and young parents to assist them in developing knowledge and skills related to pregnancy, parenting of young children, economic independence, and goal setting toward balancing work and family.

G.R.A.D.S. II S2 (FCS312)

Offered: Spring | .5 credit

Graduation, Reality, Dual-Role Skills is designed for pregnant students and young parents to assist them in developing knowledge and skills related to pregnancy, parenting of young children, economic independence, and goal setting toward balancing work and family.

Advanced Sewing Technology 4 (FCS405)

PREREQUISITE: FCS305 | Offered: Fall or Spring | .5 credit

In Advanced Sewing Technology IV, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects.

Advanced Sewing Technology 5 (FCS406)

PREREQUISITE: FCS405 | Offered: Fall or Spring | .5 credit

In Advanced Sewing Technology V, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects.

Advanced Sewing Technology 6 (FCS407)

PREREQUISITE: FCS406 | Offered: Fall or Spring | .5 credit

In Advanced Sewing Technology VI, students will continue to advance their skills in the selection, purchase, construction and alternation of clothing and textiles. Students will need to purchase and bring materials, patterns and notions throughout the semester for individual projects.

Early Childhood Careers @ Central Campus (FCS325)

Prerequisites: GPA of 2.0 or better, Parenting courses recommended. Grades: 11-12 | .5 credit per block per semester

The Early Childhood Careers program prepares students to work with children from infancy to eight years of age. Students combine classroom instruction with practicum experiences in child care centers, Head Start programs, and elementary schools. Successful completion of the second year of the program enables students to earn a national credential, Child Development Associate.

Students complete the training required by the Iowa Department of Human Services for persons working in childcare centers. Upon completing this program, they can find employment in childcare centers or may choose to further their studies in elementary or early childhood education.

Culinary Arts & Restaurant Management @ Central Campus (FCS365)

Prerequisites: 2.0 GPA, food course recommended. Grades: 10-11-12

Culinary Arts students explore opportunities for employment in the hospitality and food service industry through the operation of the student-run Central Campus Café. Students receive their ProStart certification from the National Restaurant Association and compete in local and national competitions. Students plan and prepare food, use institutional equipment, set up the dining room, and serve customers on designated Central Campus Café days. Students also have the chance to visit area restaurants and other hospitality businesses.

Fashion Design & Merchandising @ Central Campus (FCS327)

Prerequisites: A or B in Sewing Technology or Fashion recommended. Grades: 11-12

Within the creative discipline of Fashion Design, students discover fascinating fundamentals of the fashion industry and learn about all of the exciting behind-the-scene details that make every show and every display perfect. Study famous and up-and-coming designers, explore historical and current trends, and learn the importance of alterations and proper fit. In this program students building upon their sewing skills, create fashion drawings, and analyze the designs of others. The program enhances entrepreneurial skills and techniques to successfully market their designs in the fashion industry. The culminating event for this program is a spring fashion show that is created and produced by the fashion students and other cooperating Central Campus programs.

Career Opportunities in Health @ Central Campus (MIS311)

Grades: 11-12

Career Opportunities in Health introduces students to a variety of health careers through a curriculum that integrates academic and workplace skills. Rotations at UnityPoint Health-Des Moines hospital and clinic locations, as well as other private clinics throughout the metro, provide observation experiences that allow students to explore careers of their interest, learn about medicine and work towards an understanding of the big picture of healthcare while developing personal skills.

Health Science Specialist @ Central Campus (TEC395)

Prerequisites: 2.5 GPA, excellent attendance, attend program orientation, student questionnaire and teacher recommendation. Current physical, updated immunizations and influenza vaccine required. Hepatitis B vaccine is recommended. Grades: 11-12

Within the Health Science Specialist program, students develop nursing assistant skills in the classroom and laboratory setting at Central Campus. Clinical experience also takes place at local hospitals and long term care facilities; learning the skills and vocabulary of health care aiding to develop a successful career in the health field. This program also provides students the opportunity to obtain health care provider BLS certification. Upon completion of this course, students are prepared to take the Certified Nurse Assistant (CNA) exam for Iowa.

Nurse Aide (Basic & Advanced) @ Central Campus (TEC391 / TEC393)

Prerequisites: 2.0 GA for 75-hour Nurse Aide course and 2.5 GPA or better for the Advanced Nurse Aide class, excellent attendance, teacher recommendation, student questionnaire and attend a program orientation. A current physical and updated immunizations are required, Hepatitis B vaccine is required. Grades:11-12

These programs give students the opportunity to learn the necessary skills and training to work in various health care settings. They experience classroom and laboratory instruction along with supervised clinical experience in local long-term care (nursing home) and hospital settings. The advanced program also provides students the opportunity to obtain health care provider BLS certification.

Nurse Aide certification is required for admission to most Iowa nursing schools. Either of these courses prepares students for the nurse aide certification. This course includes classroom and laboratory instruction at Central Campus and supervised clinical experience at various health care settings. In addition to the content of the 75-hour Nurse Aide class, the 150-hour Advanced Nurse Aide class covers skills and knowledge utilized by nurse aides in skilled-care units and in hospital areas. Content in the 150-hour course is presented at a faster pace than in the 75-hour Nurse Aide class.

Industrial Technology

Future Ready: Academic & Career Planning (CTE101)

Prerequisite: NONE | Offered Fall or Spring | .5 credit

Future Ready will direct students in career and academic planning. Students will be exposed to all types of postsecondary options. Future Ready will meet graduation requirements including Health Literacy, Financial Literacy, Technology Literacy, and Employability Skills. Future Ready will help prepare students for life after high school, wherever their path may lead!

PLTW: Intro to Computer Science (TEC161)

Prerequisite: NONE | .5 credit

Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science Program. Students work in teams to create apps for mobile devices using MIT App Inventor. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python and apply their knowledge to create algorithms for games of chance and strategy.

3D Mechanical Dsgn & Dvlpmnt (TEC203)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Students will be introduced to the universal language of the mechanical design and development industry. Students will apply the basic skills such as measurement and problem solving in the areas of lettering, free hand sketching, geometric construction, multiview drawings, pictorial drawing, dimensioning, and section drawings. Students will apply computer aided design and development (CADD) skills to create these drawings. This course is a building block to students who may be enrolling in other Tech Ed courses in high school or programs at Central Campus.

3D Architectural Dsgn & Dvlpmnt (TEC205)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

Students will be introduced to the universal language of the Construction Industry. Students will obtain knowledge and skills relating to the various fields of engineering; such as, construction, mechanical, industrial, structural, and civil, as well as, the fields of residential and commercial architecture. Students will apply computer aided design and development (CADD) skills to create construction drawings. Students will find this course helpful if they choose to continue in the CADD program at Central Campus and/or if they choose to continue their education in the fields of Architecture, Construction or Engineering.

Metalworking Fundamentals 1 (TEC207)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The Career & Technical student will be introduced to basic processes within all manufacturing industries. The students, through classroom, lab and problem solving activities, will develop skills and knowledge in the areas of bench metal (sheet metal, small hand and power tools), machine tools (lathes, grinders, mills, drill presses), and hot metals (gas and arc welding foundry, forging). As the students explore the areas of metalworking, emphasis will be placed on the career opportunities and safety. Students will build upon their skills from academic areas as they use and develop skills relating to measurement, blueprint reading and layout.

Metalworking Technology 2 (TEC209)

PREREQUISITE: TEC207 | Offered: Fall or Spring | .5 credit

This course will build upon the metalworking skills, knowledge and problem solving abilities acquired in Metalworking Fundamentals 1. Through hands-on and problem solving activities the students will develop an understanding of the basic elements of metalworking such as design, planning, producing, and distribution of a manufactured product. Students will be introduced to the use of manufacturing equipment and materials commonly found in industry today including test equipment, robots, lasers, CNC, CAM, and other various computer applications.

Introduction to Wood Construction 1 (TEC211)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The Career & Technical student will be introduced to Wood Construction as a career and/or avocation. Through a variety of hands-on, problem solving projects, students will be introduced to the safe use, care and maintenance of various hand tools, power tools, and stationary equipment. Projects will be produced using a variety of processing techniques and technologies used in the construction industry. Students will build upon their skills from other academic areas as they interpret technical information from working drawings, complete board feet calculations and study wood science.

Finish Carpentry 2 (TEC213)

PREREQUISITE: TEC211 | Offered: Fall or Spring | .5 credit

This course will build upon the wood construction skills, knowledge and problem solving abilities acquired in Intro to Wood Construction 1. The course is designed to provide students with an understanding of technology and its impact on the construction industry. Students will continue to work with the CNC equipment in the production of their projects. Students will have the opportunity to explore the impact of technology on the construction industry. Students will continue to build upon their skills from other academic areas as they interpret technical information from a variety of technical sources, calculate materials needed, materials strength and building design.

Power Fundamentals 1 (TEC215)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The student will gain knowledge of the basic physical and mechanical principles related to the transportation field. Through classroom instruction, demonstration, hands-on and problem-solving activities, the student will gain knowledge and skills in the operation and servicing of small engines such as lawnmowers, snow blowers, and go-karts. Emphasis is placed on the operation and servicing of engine systems. The student will also learn to apply safety as it relates to the vehicle, power tools, test equipment, and materials.

Power Technology 2 (TEC217)

PREREQUISITE: TEC215 | Offered: Fall or Spring | .5 credit

This course expands and extends the information acquired in Power Fundamentals 1. Through hands-on and problem-solving activities, the student will gain additional knowledge and skills in the areas of small engine construction, rebuilding, and alternative power. Instruction will emphasize technologies related to designing and building gas-powered, high mileage vehicles. Students will also learn how to safely utilize modern test equipment, tools, and materials.

Graphic Design Fundamentals 1 (TEC223)

PREREQUISITE: NONE | Offered: Fall or Spring | .5 credit

The student will experience a wide range of hands-on experiences and knowledge of modern printing processes and careers. The students will design and produce various products using appropriate printing technology. During the semester, students will be introduced to publication design, desktop publishing, electronic imaging, process photography including halftone photography, image assembly/plate making, offset lithography including multi-color printing, silk-screen printing and bindery/finishing. The student will learn and apply safety as it relates to the tools, equipment, and materials common to this course.

Graphic Design Technology 2 (TEC225)

PREREQUISITE: TEC223 | Offered: Fall or Spring | .5 credit

Through hands-on and problem-solving activities the student will gain additional knowledge and skills in the current technology relating to the materials processes, equipment, products, and the careers in the Graphic Arts industry. This course will introduce the students to halftone and special effects photography, multi-color reproduction processes, and the various computer applications in design as well as job cost estimating and production scheduling which are part of Graphic Arts management.

Intro to Automotive (TEC228)

PREREQUISITE: NONE | Offered: Fall or Spring at Central Campus | .5 credit

Students learn the physical and mechanical principles related to the transportation field including ownership, maintenance, and related career opportunities in the automotive industry. They increase their knowledge regarding the operation and service of internal combustion engine systems and the various parts and accessories. Students learn shop safety related to the use of hand and power tools, run tests on equipment, and gain experience with industry vocabulary. Students are introduced to the following programs at Central Campus: Auto Technology, Auto Collision and Welding.

Construction Intro to Industry (TEC231)

Prerequisite: NONE | Offered: Fall or Spring | .5 credit

Description: Students will have the opportunity to earn an OSHA 10 card accepted nationwide in the construction industry. They will also receive a certificate for General Construction I. The course will be utilizing the Ace accredited LIUNA Training Education fund General Construction I Curriculum. Topics include: Intro to Construction Industry, Craft Orientation, Construction Math, Back Safety Heat Stress and Tool Material Identification, Power Tools and Aerial Lifts. General Construction I qualifies for two college semester hours in Introduction to Construction Technology or one semester hour in Introduction to Construction and one semester hour in Industrial Safety.

Construction: Commercial/Residential (TEC233)

Prerequisite: TEC211 | Offered Fall | .5 credit

Students will be introduced to and explore both Commercial and Residential Construction. Through a variety of hands-on, problem solving projects, students will advance their knowledge of the safe use, care and maintenance of various hand tools, power tools, and stationary equipment. Projects will be produced using a variety of processing techniques and technologies used in the construction industry. Students will build upon their skills from other academic areas as they interpret technical information from working drawings, complete board feet calculations and study wood science.

Construction: Commercial/Residential (TEC234)

Prerequisite: TEC233 | Offered Spring | .5 credit

Students will be introduced to and explore both Commercial and Residential Construction. Through a variety of hands-on, problem solving projects, students will advance their knowledge of the safe use, care and maintenance of various hand tools, power tools, and stationary equipment. Projects will be produced using a variety of processing techniques and technologies used in the construction industry. Students will build upon their skills from other academic areas as they interpret technical information from working drawings, complete board feet calculations and study wood science.

Future Set: Academic & Career Planning (CTE301)

Prerequisite: NONE | .5 credit

Starting to feel nervous about graduating and moving out on your own? Do you feel ready for that next step after high school? Are you worried about handling life on your own? Future Set is a student driven curriculum course that is designed to answer all of your burning questions about life after high school! This course will cover post-secondary education/training, career readiness, housing decisions and personal financial decision making to make you successful as you navigate the world of adulthood.

Finish Carpentry 3 (TEC301)

PREREQUISITE: TEC213 | Offered: Fall | .5 credit

This advanced course is available to students to continue to develop machine techniques as they construct various projects including cabinets, tables, and finish carpentry construction applications. Individual projects will be developed by the student and teacher together.

Finish Carpentry 4 (TEC302)

PREREQUISITE: TEC301 | Offered: Spring | .5 credit

This advanced course is available to students to continue to develop machine techniques as they construct various projects including cabinets, tables, and finish carpentry construction applications. Individual projects will be developed by the student and teacher together.

Adv Graphic Arts Tech S1 (TEC307)

PREREQUISITE: TEC225 | Offered: Fall or Spring | .5 credit

The student's knowledge and skill base will continue to grow in this advanced course, as the students will develop their own multi-color projects as designed by both the student and the teacher.

Advanced Metals 1 (TEC309)

PREREQUISITE: TEC209 | Offered: Fall or Spring | .5 credit

This Advanced course is available to students to continue to develop machine techniques as they construct various projects. The individual projects will be designed by the student and teacher together and will involve some power mechanics and CNC machining.

Construction Pre-Apprentice S1 (TEC331)

Prerequisite: Construction Intro to Industry TEC231 | Offered: Fall | .5 Credit for TEC331

Description: The Construction Pre-Apprenticeship course will focus on the commercial construction process. Students will be working with experienced professionals in the field, as well as representatives of local contractors and local apprenticeship programs. The course will be utilizing the Ace Accredited LIUNA Training Education Fund General Construction II curriculum. Topics include: Employability Skills, Hoisting and Rigging, Cutting and Burning, Concrete, Pipe Laying, Blue Print Reading and Line Grade, Ladders and Scaffolds. Throughout the school year, the students will be involved in building a community project. General Construction II qualifies for three college semester hours in Introduction to Construction Technology. Completion of this course qualifies for direct entry to LIUNA's Construction Craft Laborers' Apprenticeship Program.

Construction Pre-Apprentice S2 (TEC332)

Prerequisite: Construction Pre-Apprentice S1: TEC331 | Offered: Spring | .5 credit

Description: The Construction Pre-Apprenticeship course will focus on the commercial construction process. Students will be working with experienced professionals in the field, as well as representatives of local contractors and local apprenticeship programs. The course will be utilizing the Ace Accredited LIUNA Training Education Fund General Construction II curriculum. Topics include: Employability Skills, Hoisting and Rigging, Cutting and Burning, Concrete, Pipe Laying, Blue Print Reading and Line Grade, Ladders and Scaffolds. Throughout the school year, the students will be involved in building a community project. General Construction II qualifies for three college semester hours in Introduction to Construction Technology. Completion of this course qualifies for direct entry to LIUNA's Construction Craft Laborers' Apprenticeship Program.

Electricity and Electronics S1 (TEC361)

PREREQUISITE: NONE | Offered: Fall | .5 credit

Electricity/Electronics Fundamentals is a one-semester course. Through classroom and lab activities students will gain skills and knowledge in the areas of basic DC and AC circuits, circuit components, codes, testing, electromagnetism and inductance, capacitance, power supplies, power generation and distribution, amplification and digital circuits. Students will learn the safe use of the tools, test instruments, equipment and supplies used in this course plus information on career opportunities in this field.

***College Intro Engin. Dsgn S1 (TEC501)**

COREQUISITE: MTH111 (Algebra I) or higher, meets / exceeds proficiency in previous math course or teacher's approval. | Offered: Fall | .5 credit

This is the first year foundation course of the national pre-engineering program, Project Lead the Way. This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

***College Intro Engin. Dsgn S2 (TEC502)**

PREREQUISITE: TEC501 Co-REQUISITE: Grade Level or Higher Math Course | Offered: Spring | .5 credit

This is the first year foundation course of the national pre-engineering program, Project Lead the Way. This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

***College Principles Engin S1 (TEC503)**

Prerequisite: Meets or Exceeds Proficiency in TEC501/502 (Intro to Engineering Design), or Teacher's Approval CO-REQUISITE: Grade Level or Higher Math Course | Offered: Fall | .5 credit

This is the second year foundation course in the national pre-engineering program, Project Lead the Way. This course helps students understand the field of engineering. Exploring various manufacturing processes and technologies help students understand how engineers use math, science and technology in problem solving to benefit humans. This course also looks at possible social and political consequences of technology changes.

***College Principles Engin S2 (TEC504)**

PREREQUISITE: TEC503 CO-REQUISITE: Grade level or higher Math course | Offered: Spring | .5 credit

This is the second year foundation course in the national pre-engineering program, Project Lead the Way. This course helps students understand the field of engineering. Exploring various manufacturing processes and technologies help students understand how engineers use math, science and technology in problem solving to benefit humans. This course also looks at possible social and political consequences of technology changes.

***College Digital Electronic S1 (TEC505)**

CO-REQUISITE: Grade level Math course | Offered: Fall | .5 credit

This is the third year foundation course in the national pre-engineering program, Project Lead the Way. This course is a study of applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

***College Digital Electronic S2 (TEC506)**

PREREQUISITE: TEC505 CO-REQUISITE: Grade level Math course | Offered: Spring | .5 credit

This is the third year foundation course in the national pre-engineering program, Project Lead the Way. This course is a study of applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

***AP Computer Sci Principles S1 (TEC551)**

PREREQUISITES: MTH111/112 Algebra I S1/S2 | Offered: Fall | 0.5 credit

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning and computational content, develops computational thinking skills, and engages students in the creative aspects of the field.

***AP Computer Sci Principles S2 (TEC552)**

PREREQUISITE: TEC551 AP Computer Sci Principles S1 | Offered: Spring | 0.5 credit

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning and computational content, develops computational thinking skills, and engages students in the creative aspects of the field.

PLTW: Computer Science Prin S1 (TEC461)

Prerequisite: PLTW IED and PLTW POE | Offered: Fall, Central Campus only | .5 credit

Description: Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

PLTW: Computer Science Prin S2 (TEC462)

Prerequisite: PLTW IED and PLTW POE | Offered: Fall, Central Campus only | .5 credit

Description: Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

Welding Program @ Central Campus (TEC375)

Prerequisite: None | Offered: Fall, Central Campus | .5 credit per block each semester

Welding provides students with the occupational and technical skills to be safe, competent welders. Students develop skills in different welds such as oxy-acetylene, shield metal arc, mig, and plasma arc cutting. Students learn tig welding and learn to weld a variety of steels and steel alloys. Skills include blueprint reading, design, layout, and fabrication of projects. Students have the opportunity to participate in the Student American Welding Society Organization.

Energy & Sustainability @ Central Campus (SCI231)

PREREQUISITE: NONE | Offered: Fall | .5 credit per block each semester

The first year of the IESA program is an introduction to basic environmental, ecology, energy, sustainability, and simple math concepts. The first year is divided into two semesters with separate topics and goals. The first semester of the first year is designed to introduce students to the broad areas of resources. These include air, land and water. The semester also includes a beginning of investigations into alternative energies.

Auto Collision Program @ Central Campus (TEC313)

Prerequisite: Exploring Tech recommended | Offered: Fall | 0.5 Credit per block each semester

Auto Collision Repair provides students with experience through repairs on late model, damaged automobiles. Quality workmanship, shop safety, good work habits, cooperation, dependability, and responsibility are stressed. Students become familiar with and work with the latest hand and power tools and equipment unique to this trade. The course is designed to prepare students to operate at the same level of workmanship that is found in local auto body shops.

Auto Technology Program @ Central Campus (TEC317)

Prerequisite: TEC228 or other TEC course or interest in Career | Offered: Fall and Spring | 0.5 credit per block each semester

The Automotive Technology program is certified by the National Automotive Technology Education Foundation (NATEF). Students complete competencies in Automotive Engines, Brakes, Steering and Suspension, Electricity/Electronics, HVAC, Engine Performance and both Automatic and Manual Transmissions. Students are engaged academically in learning basic automotive knowledge and skills. Students are then exposed to real world activities in the automotive lab learning, how to safely diagnose, disassemble, assemble and repair all aspects of the modern automobile.

Army Junior ROTC @ Central Campus (MIS173)

Prerequisite: GPA 2.5, Grades 9-12 | Offered: Fall | .5 credit per block each semester

Junior ROTC is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork, and self-discipline. JROTC's focus is reflected in its mission statement: "Motivating Young People To Be Better Citizens." The class prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. The program is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. Students will participate in a regular Physical Education class if they are taking JROTC.

Broadcasting & Film @ Central Campus (LA363)

Prerequisites: C or better in Speech and English. Grades 10-11-12 | .5 credit per block each semester

The Broadcasting & Film Department at Central Campus is a dynamic, two-year program which concentrates on the creative and communication aspects of the radio/television/film industry. Emphasis is placed on analysis of career paths and the production techniques associated with gainful employment. Considerable time is spent working on the craft of writing, reading, equipment operation, announcing, creative thinking and management skills.

The program may include studio assignments in the FCC-licensed radio station, KDPS 88.1 FM (and streaming live online: kdpscentral.streamon.fm), or submission of film and television projects to DMPS-TV. Students also have the opportunity to submit work to various contests and festivals, such as the Wild Rose Film Festival, 48 Hour Film Festival, Iowa Motion Pictures Association Film Festival, Cedar Rapids Film Festival and John Drury Radio Awards. Projects can also be submitted to colleges and universities in pursuit of scholarships in the area of Broadcasting & Film.

Commercial Photography @ Central Campus (ART319)

Prerequisites: minimum of 2.5 GPA or a B in two of the following courses: Art 1, Art 2, other art classes, Photography, Multimedia or other project-based class. Grades: 11-12 | It is recommended, but not required, that students have a 35mm film camera with manual options. | .5 credit per block each semester

In the Commercial Photography program, students obtain skills in film processing, darkroom procedures, studio shooting techniques, camera techniques, photographic history, presentation skills and digital imaging. Portfolio development enables students to apply for employment, scholarships and college admission. Students will publicly display work at the Central Campus Student Art Exhibit and other exhibitions.

Graphic Communications @ Central Campus (ART361)

Prerequisites: Two courses in any of the following areas highly recommended: Art, Graphic Design, Computer Applications, Journalism, and Technology Education. Grades: 10-11-12

Graphic Communication provides education, training and real world graphic design and print production experiences. Through close relationships with industry experts, the program's curriculum and industry experiences reflect the technological expectations of the graphic communication industry. First-year students complete a wide variety of hands-on projects in design, pre-press, print production, and bindery. Participation in frequent industry tours allows students to increase the range and depth of their understanding.

Criminal Justice Program @ Central Campus (SOC461)

Offered: Fall | .5 credit per block each semester

The Criminal Justice program gives students the opportunity to explore careers in police work, criminal law, crime scene investigation, and other related vocations. Faculty works closely with the Des Moines Police Department and Polk County Sheriff's Office to provide authentic experience in a vibrant law enforcement community. Students participate in mock crime scene scenarios and job shadowing professionals.

Sports Officiating & Leadership @ Central Campus (PSY327 Fall / PSY328 Spring)

Grades: 11-12

In Sports Officiating and Leadership, students become IHSAA and IHSGAU certified officials in a variety of sports. They will have film study through industry-leading Hudl software to understand theories and movements of the sport to better understand rules and positioning. Along the way, they will have live on site training in cooperation with the other programs located in our facility performing “internural” sports to gain experience and practice in live game situations. After students earn certification with the state of Iowa they will be placed in jobs within the DMPS District to start earning money as a fully certified official. Throughout class students will prepare business cards and develop an officiating philosophy for work after class ends. This is a great opportunity, for young adults, to gain confidence and job experience in a field they can do for the rest of their life.

Urban Leadership Academy @ Central Campus

Grades: 9-10-11-12

Urban Leadership is committed to empowering students on their journey to becoming community-based activists and entrepreneurs. Based in the principles of hip-hop culture, students engage in an in-depth study of social movements shaping history and urban settings across the United States. Through the use of various mediums such as the written and spoken word, performance-based literacy, urban arts, and youth + community summits, and internships, students are given a platform to become the leaders of today.

The objective is to provide students with in-depth knowledge regarding social movements shaping US History, equipping them with the leadership skills necessary to becoming change agents in their local communities.

Students receive elective English credit.

Urban Teacher Academy

Prerequisites: GPA of 2.5 or better. Grades 11-12

Students learn first-hand elementary, middle school, or high school career expectations and experiences through the Urban Teacher Academy. They acquire extensive field experience through tutoring, field trips, and classroom observations. There is also time set aside for internships with master teachers and guest speakers who are experts in the field of education.

Students also visit colleges and universities to gain insight into the post-secondary option that might be best for them. This program provides an excellent foundation and transition to the teacher education programs of four-year liberal arts institutions.

Computer Aided Design @ Central Campus (TEC327)

Prerequisites: Drafting class recommended | .5 credit per block each semester

The Computer Aided Design program is a one year program that provides students with the occupational and technical skills for job entry in manufacturing and technical skills for job entry in manufacturing and construction, or college entrance in the fields of engineering, design, and architecture. The engineering and mechanical curriculum of the course emphasizes principles and practices, engineering standards and the uses of references and technical information. Industrial production practices such as rapid prototyping and CNC machining are introduced. The architectural curriculum of this course emphasizes design and technical information and the production of construction drawings in the CAD environment. Up to date design and construction practices are researched and utilized. Participation in a student organization is encouraged. Industry certifications are available.

Civil Engineering & Architecture PLTW @ Central Campus (TEC507)

Prerequisites: Mechanical/architectural drafting/design recommended. Grades: 10-11-12

Civil Engineering and Architecture emphasizes design studies and technical information, and the production of construction drawings. Interior design, landscape design and the development and study of energy efficient housing is incorporated in the curriculum to prepare students for changes in the housing industry. 2D and 3D computer aided design skills in architecture and construction industries are practiced and critiqued by professionals and model building is used to improve visualization skills.

Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam. Software certified user certifications are available.

Engineering Development & Design – PLTW Capstone @ Central Campus (TEC491)

Prerequisites: POE or IED recommended. Grade 12

The curriculum of the Engineering Development and Design program emphasizes principles and practices, engineering standards and the use of references and technical information for production of manufactured goods. Industry based 2D and 3D computer aided design skills are taught, as well as introduction to computer aided machining (CAM) and computer aided coordinate measuring (CMM). Rapid prototyping is integrated with the use of multiple types of 3D printers and computer numerically controlled (CNC) equipment.

Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam.

Engineering, Robotics & Electronics @ Central Campus (TEC505)

Prerequisites: "C" in Algebra I recommended. Grades: 10-11-12

The one-year Engineering, Robotics and Electronics program focuses on the application of electronics and physics. Students work with the operation of electronic devices and integrated circuits. Students apply this knowledge to project-driven course work, including the operation and programming of robotic systems. This course is designed for students with an interest in science, engineering, or electronics. This program includes Digital Electronics course work. Digital Electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the course is the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.

Aquarium Science @ Central Campus (SCI465)

GPA of 2.5 or better. Grades: 10-11-12

In Aquarium Science, students experience aquatic animal husbandry and aquaculture in a facility modeled after a professional public aquarium laboratory. They learn to replicate environmental conditions in the lab similar to those on a coral reef by studying the effects of lighting, water quality, and nutrition on the saltwater organisms in their care. Hands-on activities in the laboratory include breeding saltwater clownfish, propagating live corals and anemones on the coral farm, breeding jellyfish, and live food culture. This program prepares students for careers in Marine Biology, Environmental Science, commercial aquaculture (fish hatcheries), public aquariums, aquarium maintenance, pet industries and most environmental fields.

Students in Aquarium Science are eligible to participate in an optional marine field ecology trip in the spring semester for DMACC credit. (Aquarium Science is an elective course and does not satisfy high school science credit requirements.)

Landscaping @ Central Campus (SCI345)

Prerequisites: Sci239/241 Recommended

Landscaping class is a hands-on class where students learn actual design principals; learn the techniques to such things as site preparation, figuring a list of materials for the project and the cost of the project and what one would charge the customer. The first semester students actually work on building and completing the class project on site at the agriculture lab. Theory is put into practice.

The second semester we move into the classroom and work with the latest software learning through CAD how to use the computer to completely design a landscape before going to the job site. We go through various tutorials to master the process. Then the students can actually design landscape customers projects through pictures provide by the customer by incorporation landscaping plants we sell through our annual spring plant sale.

Horticulture & Animal Science @ Central Campus (SCI239/241)

At our Agriculture Science Academy at 201 County Line Road on the southside of Des Moines (south of Blank Park Zoo), students learn about animals and plants through hands-on activities and exciting projects. The nation's largest secondary school student-run greenhouse and livestock facility allow them to gain practical experience in fields including agricultural business, environmental science, horticulture, landscaping, and veterinary careers. Students are enrolled as members of FFA, the national youth leadership organization, which enhances speaking and leadership skills while attending the academy.

Environmental Science @ Central Campus (SCI245)

Prerequisites: Sci239/241 Recommended

In environmental science we tackle the latest environmental issues facing both Iowa and the United States. Key topics covered are soils, water quality and management, forestry, wildlife, aquatics. Students have the opportunity to gain collage credit for soils credit 154 though Iowa State free of charge. This class is based with many classroom hours out in the field doing hands on work. Also many labs are part of the class. We do many field trips to off site for learning activities.

Vet Careers @ Central Campus (SCI443)

Prerequisites: Sci239/241 Recommended

Veterinary Science and Careers covers the skills necessary to being successful in an animal science career. All animal science careers are explored. The class includes the origins of common medical terms used in the veterinary field. The class will center on diseases of large and companion animals, including discussion of causes, transmission, prevention and control. Students will work with all animals and be involved in their care. Upon completion of this program, a student will feel comfortable with the nomenclature and skills necessary to work in the animal science industry.

Advanced Tech in Agri-Business @ Central Campus (SCI511)

Prerequisites: Sci239/241 Recommended

The major focus of Advanced Technology in Ag Business will be in biotechnology and the role it plays in modern agriculture. Students participating in this class will receive a holistic view on agriculture in the 21st century. We focus the first semester on public issues, communication, and business management. The latter part of the year will devoted to hands-on biotechnology. We will spend a time in the laboratory learning hands on techniques and how to run an experiment. Students will get to do many labs during their time. Some labs include making biofuels, extracting DNA, and testing water samples in the Des Moines area. Students will also have the opportunity to do a job shadow and tour various places in the agriculture industry.

Marine Biology @ Central Campus (SCI445)

Prerequisite: GPA of 2.5 or better Grades: 10-11-12

The Marine Biology program puts students face to face with hundreds of marine organisms found around the world. Students won't just learn about the ocean from books, they also take care of over 100 "tiny oceans" during the year and personally interact with sharks, jellyfish, corals, nautilus, and hundreds of fish in a new facility modeled after university laboratories and public aquariums. Students are also given the opportunity to conduct their own research projects, participate in science fairs, practice field work by kayaking, dissect different organisms, and more. What makes this program so unique is that it is a student-run laboratory and aquarium which gives each student the opportunity to literally get their hands wet in everything that goes on, but to also leave a legacy for other students by coming up with new ideas for aquariums and different marine organisms to have in the program.

An optional Field Studies course occurs in March where the students are able to put their skills to the test, earn college credit, and have a lot of fun! For 1-2 weeks, students become "Marine Biologists" and participate in several activities to gain an understanding of life as a marine biologist.

Quality Pre-Apprenticeship Skilled Trades Academy @ Central Campus (TEC219)

The Quality Pre-Apprenticeship Skills Trades course is the introductory course into the Skills Trades Academy at Central Campus. This course provides an overview of multiple skilled trades (Carpentry, Electrical, Plumbing, Painting & Drywall, Concrete & Masonry, HVACR, and Welding) involving both commercial and residential construction. Students will leave with industry-recognized credentials including; OSHA 30-hour card and the CAMT- Certificate for Apartment Maintenance Technicians.

Carpentry Skilled Trades @ Central Campus (TEC265)

Prerequisites: TEC211 Intro to Wood Construction 1 and Finish Carpentry 2 recommended. Grades: 10-11-12

In the Home Building program, students construct a house from the basement to the roof. This program concentrates on craftsmanship in framing, floors, trim, cabinetry, and finish work. First year students are involved in building sheds, garages and second year students build a house. Students learn teamwork and participate in budgeting, purchasing, and estimating to prepare for careers in contracting. This experience has direct links to the local union apprenticeship program, DMACC and other training programs after graduating from high school.

Students have an opportunity to earn a ten-hour OSHA card for general construction, certify in Lead Safe Work Practices, Powder Actuated Tools and learn to drive a skid loader.

Painting & Drywall Skilled Trades @ Central Campus (TEC269)

Prerequisites: Technical Education course recommended. Grades: 10-11-12

The Painting and Drywall program focuses on getting students in the field to acquire the skills necessary for the commercial painting industry. They learn the proper use of hand and power equipment used for applying a variety of finishes. Some specific skills taught in the program include brush and roller applications, estimating costs, surface preparation, and taping for drywall applications. Along with direct links to union apprenticeships, students can earn a ten-hour OSHA card for general construction.

Construction Trades @ Central Campus (TEC 239)

Students focus on the commercial construction process in this introductory program. They work with experienced professionals in the field as well as representatives of local contractors and local apprenticeship programs. Here students are able to explore educational opportunities in all union trades while working on related projects.

Cybersecurity @ Central Campus (TEC381)

Grades: 10-11-12

Cybersecurity is a multi-year program designed to assist students in acquiring the knowledge and skills needed for success in one of today's fastest growing career areas. Courses focus on evaluation, repair and replacement of computer hardware components and the installation and configuration of computer operating systems. The software courses focus on the installation and configuration of network operating systems, network design and administration, security and troubleshooting. Experience hands-on learning, field trips, Cyber Defense Competition and much more. Students who successfully complete this program can earn IT certifications and college credits. The skills learned in this course are a solid foundation for a career in IT.

Mobile Apps @ Central Campus (TEC423)

The Mobile Apps program enables students to tap into the ever-expanding universe of software for mobile technology. The program does not expect or require any previous programming or design experience, students learn the skills they need through real-world project based learning approach. Upon successful completion of the program, students are well equipped to begin a career in computer programming on their own or for a business using the Java programming language and multiple mobile application platforms. Students are eligible to earn college credit while completing the Mobile Apps program. This college credit transfers to any accredited college, or can be used as a part of a degree obtained from DMACC. This course allows us to explore careers in IT as is relates to this course and develop an electronic portfolio of student work.

Software Design and Gaming @ Central Campus (TEC435)

Prerequisites: Computer class recommended along with strong interest in field. Grades: 10-11-12.

Delving into both technology and creativity, Software Design and Gaming immerses students into a simulated internship for a video game design company. They use the design process as well as other skills (graphic design, programming, and music generation) to create 2D and 3D video games. Game creation software is used to package images, textures, audio, media, and programming code into the final product. Students should anticipate a video game design competition in the spring semester.

Video game software compiler DarkBASIC Pro will be used to package images, textures, sounds, music, media and programming code to package final game products. Experience in software design will allow the student to realize the potential for entertainment and educational game design, application design and programming, and simulation design.

Introduction to Automotive @ Central Campus (TEC228)

Prerequisites: Strong career interest. Grades: 10-11-12

1 Block – 1 Semester Course

Basic physical and mechanical principals related to the transportation field, including ownership, maintenance, and related careers will be covered in this course. Through instruction, demonstrations, hands-on and problem-solving activities, students gain knowledge of skills involved in the operation and servicing of internal combustion engine systems, and the body and structural systems of various vehicles, including their parts and accessories. They also learn to apply safety as related to the vehicle, hand and power tools, test equipment, and materials common to this course.

Aviation Technology Academy @ Central Campus (TEC237)

Prerequisites: Technical education courses recommended along with strong career interest in the field.
Grades: 10-11-12

The Aviation Technology Academy at 205 County Line Road on the southside of Des Moines is designed to train students for careers in various areas of the rapidly growing Aviation Industry. Students have opportunities to become adept in Airlines Maintenance Airframe/Power Plant mechanics, Fixed Base Operators (military or corporate operations), and Piloting. The Aviation Technology Academy is only FAA Certified program at the high school level in Iowa, as well as the only high school program of its type in the entire Midwest. While students earn high school credit learning aviation technology, they also gain college credit at no additional cost.

Pilot Training @ Central Campus (TEC441)

Credit Acquisition and Special Considerations

2018-2019 21st Century Skills Graduation Requirements

As a part of the 23 required credits for graduation, all students must complete coursework in Financial Literacy, Health Literacy, Technology Literacy, and Employability Skills. Beginning with the class of 2021, students will be required to complete a Family Life and Consumer Sciences course in addition to Financial, Health, Tech, and Employability requirements to meet the 21st Century Skills graduation requirements. Below are the courses that meet each of these requirements. They are noted with the symbols on the course catalogs listings. Students must complete at least one course from each category of skills. Once completed, the transcript will be tagged as meeting the 21st Century Skills requirements.

MULTI-SKILL COURSES: These courses meet more than one 21st Century Skill requirement.					
Course #	Course Title	Fin. Lit	Tech Lit	Health Lit	Employ.
CTE101	Future Ready: Acad Career Planning	✓	✓	✓	✓
CTE301	Future Set: Acad Career Planning	✓	✓		✓
BUS219	Health & Financial Literacy 2	✓	✓		
BUS323	Personal Finance Management	✓	✓		
BUS111	Beginning Computer Applications		✓		✓
BUS333	Computer Applications		✓		✓
BUS531	College Computer Applications		✓		✓
FCS203	Child Development 2		✓		✓
MIS381A/382A	IB CAS A S1 & S2			✓	✓
MIS481A/482A	IB CAS B S1 & S2			✓	✓
SCI509/510	College Genetics/Microbiology S1 & S2			✓	✓
TEC435/436	Game Design & Programming S1 & S2		✓		✓
TEC461/462	PLTW: Computer Science Principles S1 & S2		✓		✓
TEC491/492	PLTW: Engineering Design & Development S1 & S2		✓		✓
TEC501/502	PLTW: Intro to Engineering Design S1 & S2		✓		✓
TEC503/504	PLTW: Principles of Engineering S1 & S2		✓		✓
TEC505/506	PLTW: Digital Electronics S1 & S2		✓		✓
TEC507/508	PLTW: Civil Engineering & Architecture S1 & S2		✓		✓
TEC551/552	AP Computer Science Principles S1 & S2		✓		✓
TEC557A/558A	AP Computer Science A		✓		✓
FCS9552-9557	Adult Living Transitions 1	✓		✓	✓
FCS9562-9567	Adult Living Transitions 2	✓		✓	✓
FCS9572-9577	Adult Living Transitions 3	✓		✓	✓
FCS9582-9587	Adult Living Transitions 4	✓		✓	✓

2018-2019 21st Century Skills Graduation Requirements (cont.)

FINANCIAL LITERACY	
BUS105	General Business
BUS219	Health and Financial Literacy 2
BUS301	Accounting 1
BUS323	Personal Finance Management
BUS401	Accounting 3
BUS402	Accounting 4
BUS523	College Personal Financial Management
BUS534	College Accounting 2
CTE101	Future Ready: Acad Career Plan
CTE301	Future Set: Acad Career Plan
FCS9552-9557	Adult Living Transitions 1
FCS9562-9567	Adult Living Transitions 2
FCS9572-9577	Adult Living Transitions 3
FCS9582-9587	Adult Living Transitions 4
MTH323	Financial Math
SOC401	Micro/Macro Economics
SOC403/4030	Economics

HEALTH LITERACY COURSES	
CTE101	Future Ready: Acad Career Plan
FCS103	Child Development 1
FCS107	Nutrition & Food Prep 1
FCS109	Nutrition & Food Prep 2
FCS201	Health: Relationships
FCS203	Child Development 2
FCS219	Health & Financial Literacy 1
FCS9552-9557	Adult Living Transitions 1
FCS9562-9567	Adult Living Transitions 2
FCS9572-9577	Adult Living Transitions 3
FCS9582-9587	Adult Living Transitions 4
MIS173	ROTC Army I
MIS175	ROTC Army I EB
MIS309	Career Opp: Health
MIS311/312	Career Opp: Health S1 & S2
MIS381A/382A	IB CAS A S1 & S2
MIS481A/482A	IB CAS B S1 & S2
PSY227/228	Psychology of Health & Fitness S1 & S2
SCI509/510	College Genetics/Microbiology S1 & S2
SCI521/522	College Adv Anatomy & Physiology S1 & S2
Central Campus Program	Career Opportunities in Health
Central Campus Program	Health Science Specialists (Intro to Biology)
Central Campus Program	Culinary Arts & Restaurant Management

2018-2019 21st Century Skills Graduation Requirements (cont.)

TECHNOLOGY LITERACY COURSES	
CTE101	Future Ready: Academic Career Planning
CTE301	Future Set: Academic Career Planning
BUS101/101C	Tech Seminar
BUS111/111C/111IB	Beginning Computer Applications
BUS219	Health & Financial Literacy 2
BUS323	Personal Finance Management
BUS325	International Business
BUS331	Word Processing
BUS333	Computer Applications
BUS335	Desktop Publishing
BUS337	PowerPoint & Multimedia
BUS339	Intro to Website
BUS521	College Intro to Website
BUS523	College Personal Finance Management
BUS525	College PowerPoint & Multimedia
BUS527	College Desktop Publishing
BUS531	College Computer Applications
LA321/322	Newspaper S1 & S2
LA323/324	Yearbook S1 & S2
SCI511/5112/5113	College Global Animal Science S1 & S1B & S1C
SCI512/5122/5123	College Global Animal Science S2 & S2B & S2C
TEC101	Exploring Tech Ed
TEC161/162	PLTW: Intro to Computer Science S1 & S2
TEC201/202	Technology Today S1 & S2
TEC203	3D Mechanical Design & Development
TEC205	3D Architectural Design & Development
TEC218	Intro to Robotics
TEC223	Graphic Design Fundamentals 1
TEC225	Graphic Design Technology 2
TEC327/3272	CAD Tech I & CAD Tech I B
TEC328/3282	*CAD Tech I & *CAD Tech I B
TEC381/3812	Cyber Security I & Cyber Security I B
TEC382/3822	Cyber Security I & Cyber Security I B
TEC383/3832	Cyber Security II & Cyber Security II B
TEC384/3842	Cyber Security II & Cyber Security II B
TEC435/436	Game Design & Programming S1 & S2
TEC461/462	PLTW: Computer Science Principles S1 & S2
TEC491/492	PLTW: Engineering Design & Development S1 & S2
TEC501/502	PLTW: Intro to Engineering Design S1 & S2
TEC503/504	PLTW: Principles of Engineering S1 & S2
TEC505/506	PLTW: Digital Electronics S1 & S2
TEC507/508	PLTW: Civil Engineering & Architecture S1 & S2
TEC551/552	AP Computer Science Principles S1 & S2
TEC557A/558A	AP Computer Science A
Central Campus	CAD: Computer Aided Drafting
Central Campus	ITNA: Informational Technology Network Administration
Central Campus	Broadcasting & Film
Central Campus	Graphic Communications
Central Campus	Commercial Photography
Central Campus	Animal Science: Biotechnology in Agri-Science
Central Academy	IB CAS A S1 & S2
Central Academy	IB CAS B S1 & S2

2018-2019 21st Century Skills Graduation Requirements (cont.)

EMPLOYABILITY SKILLS COURSES	
CTE101	Future Ready: Acad Career Plan
CTE301	Future Set: Acad Career Plan
BUS103	Introduction to Business
BUS111	Beginning Computer Applications
BUS311	Marketing/ Principles
BUS312	Marketing/ Retailing
BUS313	Marketing/ Sales
BUS314	Marketing/ Entrepreneurship
BUS321	Business Law
BUS333	Computer Applications
BUS351/352	Office Education Coop S1 & S2
BUS353/354	Marketing Coop S1 & S2
BUS529	College Marketing/ Sales
BUS530	College Marketing/ Entrepreneurship
BUS531	College Computer Applications
BUS537/538	College Marketing Ed Coop S1 & S2
FCS203	Child Development 2
FCS103	Child Development 1
FCS213	Fashion Runway
FCS9552-9557	Adult Living Transitions 1
FCS9562-9567	Adult Living Transitions 2
FCS9572-9577	Adult Living Transitions 3
FCS9582-9587	Adult Living Transitions 4
JROTC-Army	Central Campus
JROTC – Marines	North High School MIS169/170
LA213	Journalism 1
LA321/322	Newspaper S1 & S2
LA323/324	Yearbook S1 & S2
MIS143/144	Social Skills S1 & S2
MIS381A/382A	IB CAS A S1 & S2
MIS481A/482A	IB CAS B S1 & S2
MIS327/328	Ambassador
SCI303/303C	Forensic Science
SCI509/510	College Genetics/Microbiology S1 & S2
SCI521/522	College Advanced Anatomy & Physiology S1 & S2
SCI531/532	Biology Research Exp S1 & S2
TEC101	Exploring Tech Ed
TEC201	Technology Today
TEC203	3D Mechanical Design & Development
TEC205	3D Architectural Design & Development
TEC207	Metalworking Fundamentals 1
TEC209	Metalworking Technology 2
TEC211/213	Intro to Wood Construction 1 & 2
TEC215	Power Fundamentals 1
TEC217	Power Technology 2
TEC219/220	Skilled Trades Apprentice S1 & S2
TEC223	Graphic Design Fundamentals 1
TEC225	Graphic Design Technology 2
TEC231	Construction: Intro to Industry
TEC233/234	Construction (Commercial / Res) S1 & S2
TEC317	Automotive Fundamentals
TEC331/332	Construction: Pre Apprentice S1 & S2

TEC435/436	Game Design & Programming S1 & S2
TEC461/462	PLTW: Computer Science Principles S1 & S2
TEC491/492	PLTW: Engineering Design & Development S1 & S2
TEC501/502	PLTW: Intro to Engineering Design S1 & S2
TEC503/504	PLTW: Principles of Engineering S1 & S2
TEC505/506	PLTW: Digital Electronics S1 & S2
TEC507/508	PLTW: Civil Engineering & Architecture S1 & S2
TEC551/552	AP Computer Science Principles S1 & S2
TEC557A/558A	AP Computer Science A
ART221	Photography
Central Campus	Biology Workplace Experience
Central Campus	Automotive Collision Repair
Central Campus	Animal Science: Biotechnology in Agri-Science
Central Campus	Animal Science: Adv College Tech in Agri-Business
Central Campus	Animal Science: Vet Careers
Central Campus	Horticulture: Environmental Science
Central Campus	Horticulture: Landscaping
Central Campus	Automotive Technology
Central Campus	Aviation Technology
Central Campus	Intro to Pilot Training
Central Campus	Computer Aided Drafting & Design
Central Campus	Commercial Photography
Central Campus	Informational Technology Network Administration / CISCO
Central Campus	Engineering, Robotics & Electronics
Central Campus	Graphic Communications
Central Campus	Construction: Home Building
Central Campus	Iowa Energy & Sustainability
Central Campus	Marine Biology
Central Campus	Aquarium Science
Central Campus	Construction: Painting & Drywall
Central Campus	Broadcasting & Film
Central Campus	Welding
Central Campus	Health Sciences Specialist - Nurse Aide Specialist
Central Campus	Advanced Nurse Aide - Basic Nurse Aide
Central Campus	Career Opportunities in Health
Central Campus	Dining Room Assistant Program
Central Campus	Culinary Arts & Restaurant Management
Central Campus	Fashion Design & Merchandising
Central Campus	Urban Teacher Academy
Central Campus	Early Childhood Careers
Central Campus	Criminal Justice Program
Central Campus	Sports Officiating / Leadership
Central Campus	Urban Leadership
Central Campus	Mobile App Development
Central Campus	Software Design & Gaming
Central Campus	Pre-Apprentice Skill Trades S1 & S2
MIS9032-9037	Career Transition 1
MIS9042-9047	Career Transition 2
MIS9052-9057	Career Transition 3
MIS9062-9067	Career Transition 4
MIS9072-9075	Career Transition 5
MIS9082-9087	Career Transition 6
MIS9092-9097	Career Transition 7
MIS9103	Career Transition 8
MIS9495,9505,9525,9535,9545	Job Training
MIS9555,9565,9575,9585,9595,9605	Work Experience
MIS9664,9665,9667	Social Transitions
MIS9673-9680	Career Transitions I, II, III, IV S1 & S2

Credit Acquisition for Grade Level Advancement

In order to be considered on track to graduate with your class, credits must accumulate to...

- 5.75 credits going into your sophomore / 10th grade year
- 11.5 credits going into your junior / 11th grade year
- 17.25 credits going into your senior / 12th grade year
- 23.0 credits for graduation and diploma

Post-Secondary Enrollment Options

Postsecondary Enrollment Options (PSEO) allow eligible high school students to expand their academic course offerings by taking college-level courses at surrounding colleges. These are courses not available at the high schools, at Central Campus or Academy, or through DMACC. PSEO courses are open to 11th and 12th grade students and 9th and 10th grade students identified as talented and gifted through the district. A student must meet the college's entrance requirements for any course requiring prerequisites or placement scores. A student is allowed to take up to 23 credit hours per academic year and will earn high school credit and college credit for the courses taken. After successfully completing a course, it will be recorded on both the high school and college transcripts. The district will pay for the cost of tuition, textbooks, materials, and fees if the student is successful in the course. PLEASE NOTE THE FOLLOWING: If a student does not pass a PSEO course, the student/family are responsible for payment of tuition and fees. Transportation to and from PSEO courses is not provided by the district. The student/family must pay for all field trips or other activities.

The district has contracts with surrounding colleges for PSEO courses. Therefore, students need to inquire about PSEO by visiting with a school counselor. The student will also need to receive approval from the district office before enrolling.

Weighted Courses

Weighted courses are classes in which the final/semester grade are assigned an advantage when calculating a grade point average (GPA). Weighted courses give students an advantage for enrolling in and completing higher-level classes or more challenging learning experiences. Des Moines Public Schools offers three types of weighted courses: Advanced Placement, concurrent credit courses, and International Baccalaureate Diploma Programme courses.

Advanced Placement Courses

- Advanced Placement (AP) courses are college-level courses taken in high school. A national exam is given in May of each year and scored on a 1 to 5 scale. A score of a 3, 4 or 5 is considered passing and leads to college credit in most all 4-year colleges and universities. There are more than 30 different Advanced Placement courses available to high school students. You can find a current list of DMPS AP course offerings at each school by visiting <http://ap.dmschools.org/parentsstudents.html>
- Research proves that the knowledge and experience of taking a college-level course in high school will better prepare you for success after high school. You will learn many important skills in organization, time management, reading, writing and habits of mind. The AP course designation on your resume shows college admissions officers that you are willing to challenge yourself with difficult courses and can help with scholarship competitions as well.

- Students must take an AP exam to earn college credit. There is an exam fee. Students may qualify for fee assistance. Students should connect with their school counselor to determine their eligibility for fee assistance.
- The rewards of taking an AP exam include an opportunity to earn a passing score and receive college credit while in high school. In addition, a passing score may lead to advanced placement in college. Taking difficult exams like AP exams prepares you for other challenging tests such as SATs, ACTs, and other college entrance tests.

CONCURRENT ENROLLMENT (DMACC and Central Campus)

- Concurrent enrollment courses are college-level courses taken by high school students. They receive college and high school credit at the same time. Courses are taught by college-approved instructors and juniors and seniors have priority.
- A student must meet Des Moines Area Community College (DMACC) requirements to take a concurrent course, including any course prerequisites or placement scores.
- A student is allowed to take up to 23 credit hours per academic year and will earn high school credit and college credit for the courses taken.
- After successfully completing a course, it will be recorded on both the high school and DMACC transcripts. If attending a college other than DMACC after graduation, students are encouraged to ensure that credits will transfer.
- The district will pay for the cost of tuition, textbooks, materials, and fees. Transportation to and from concurrent enrollment courses will be provided to Central Campus. If attending any other DMACC campus, students provide their own transportation. If a student has an extenuating circumstance regarding transportation, he or she should speak with a school counselor.

International Baccalaureate Diploma Programme Courses

- The International Baccalaureate Diploma Programme courses are offered as part of a comprehensive, two-year long, internationally recognized college preparatory experience. Three core components of a research paper, ongoing public service and self-improvement projects, and a critical thinking course surround and inform six subject classes. Students submit assignments that are evaluated both by DMPS teachers, and also by professional evaluators all over the world to insure the highest levels of rigor. Housed at Central Academy, fifteen different courses are offered at a variety of levels of rigor. For more information see the Central Academy section in this document, contact the Diploma Program coordinator, Isaac Pedelty at Isaac.pedelty@dmschools.org or go to <http://ca.dmschools.org/ib-diploma>
- Research conducted on the impact of the IB Diploma Programme on student performance consistently points to better preparation for college and university than the completion of a conventional high school diploma alone. While time management, reading, and writing are all systematically strengthened in the Diploma Programme, the critical difference can be found in the intentional way that the program seeks to develop character through regular consideration of the IB Learner Profile; a set of ten characteristics including being open-minded, caring, principled, and reflective.
- You can potentially earn college level credit for the exams you sit for at the end of your two years in the Diploma Program. There is not an exam fee for taking Diploma Programme exams as long as you attempt the full Diploma, however, you must make a commitment to attending the majority of all your classes at Central Academy for your junior and senior years.

Credit Transfer Policy

Students seeking to transfer credits from another accredited high school program must submit a transcript to the district registrar. Since high school programs vary in rigor and content, only an evaluation by the DMPS Office of Academics will determine the number of credits transferred and whether those credits will be applied as an elective or required credit for graduation. DMPS reserves the right to only recognize credits awarded by appropriately accredited institutions and earned in courses aligned to standards used by DMPS curriculum. If possible, prior approval should be sought by students who are transferring for a short period of time and plan to return to DMPS (example: a summer school program delivered online) to ensure credits will be recognized.

Academic Audit Policy

Students entering DMPS without transcripts:

Students enrolled in credit bearing classes may participate with an (automatic) audit status if enrolled within the last nine weeks of the semester. At any time an audit status may be changed to credit status at the request of the teacher if the student demonstrates the evidence to fulfill course requirements. The parents/guardians and student will be notified of audit status at the time of enrollment when the Academic Audit Request Form is signed.

If a student has been enrolled in a course for longer than nine weeks, then an audit may be approved by the building principal/designee for educationally sound purposes. A parent/guardian and the student must approve and sign the Academic Audit Request Form. All academic audit requests for students enrolled for longer than nine weeks must be completed four weeks before the end of the semester.

Students with low levels of English language proficiency entering DMPS with transcripts:

Students who enter DMPS with transcripts but have low levels of English language proficiency may qualify to audit a course for educationally sound purposes.

All other students entering DMPS with transcripts:

No audit is necessary. When handling transfers from outside the district from non-SRG schools, we want to honor the work of students transferring into our classrooms. Please refer to the Mobility section on Guiding Practice 3 in the DMPS Grading Practices Handbook for this process. The handbook can be found at <http://grading.dmschools.org> .

Grading and Reporting

Des Moines Public Schools commits to all stakeholders to provide *fair, accurate, specific, and timely* information regarding student progress towards agreed-upon common standards as well as feedback for next steps and growth areas. In order to meet these commitments, DMPS uses standards-referenced grading – instructional approaches that are aligned to learning standards.

Six Guiding Practices

Six Guiding Practices are implemented K-12 districtwide to serve as a common framework:

1. A consistent 4-point grading scale will be used.
2. Letter grades, derived from the 4-point scale, will be based solely on achievement of course/grade level standards. Student participation, work completion, and ability to work with others will be reported separately using the “DMPS Citizenship and Employability Skills Rubric”.
3. Scores will be based on a body of evidence.
4. Achievement will be organized and reported by learning topic, which will be converted to a grade at semester's end.
5. Students will have multiple opportunities to demonstrate proficiency.
6. Accommodations and modifications will be provided for exceptional learners.

Translation of a Score to a Final Grade

Teachers collect a body of evidence for each learning topic. At semester, teachers will examine the evidence and determine a final topic score for each topic. Final topic scores are then averaged and converted to a grade using the following conversion scale:

A (Honors)	3.50-4.00
A	3.00-3.49
B	2.50-2.99
C	2.00-2.49
D	1.50-1.99
F	0.00-1.49

SRG, GPAs, and College Admissions

All scores will be converted to a grade at the end of each semester. Student GPAs will be calculated the same way they always have and transcripts will look the same. Colleges want grade point averages to be an accurate reflection of student learning and understanding. Grades should correlate to a student's performance on high-stakes assessments such as the Iowa Assessments or ACT.

Credit and Topic Recovery

Before a student finds themselves in a situation where they are failing a course, schools will focus on supporting students in recovery of learning at the topic level. By working to recover topics before the end of a course, students are more likely to stay on track for graduation.

DMPS provides a variety of credit recovery options. Students who qualify for the Flex Academy Program can participate in full course or topic recovery with a content teacher. They may choose their learning modality, which includes but is not limited to: online learning, an offline independent study, or one-on-one blended learning instruction with the teacher. There is also a Flex Academy Night School at Scavo High School for students who need flexibility based on their personal schedules. Any students who do not qualify for the Flex Academy Program may retake a course for the purpose of earning a higher grade (please connect with your school counselor for more information on this process). The higher of the two grades will be recorded on the transcript. Courses may be retaken only at the comprehensive high schools, Central Campus, or Scavo and must be retaken during the regular school year.

Students are required to submit evidence of learning for every reported topic in a course. Failure to do so results in an F/IE (insufficient evidence) at semester. Students who earn an F/IE in a course and choose to retake the complete course in summer school or in alternative programs during the school year will receive an F/R on their permanent record, but the F will not be calculated in the overall GPA. After successful completion of the course, a new grade will be issued and override the previous failure.

More Information on SRG and Grading Practices in DMPS

To find out more about DMPS and SRG at all levels, please visit <http://grading.dmschools.org>.

To access the Infinite Campus Parent Portal, where families can monitor student progress, please visit: <http://www.dmschools.org/infinite-campus-studentparent-portal>

Eligibility for Participation in Extra Curricular Activities

To participate in extracurricular activities for which competition is required for participation, a student must have passed four subjects in the previous semester and be in the process of passing four subjects in the current semester. An extracurricular activity is defined as one for which no grade is given and is not part of a graded course.

Students participating in the following activities must comply with the eligibility requirement by passing in four subjects:

- All athletics
- Cheerleading
- Student government
- Drill team*
- Color guard*
- **Does not apply to students enrolled in JROTC or band.*

Special consideration will be given to self-contained special education students, and other special needs students; e.g., LEP, special education resource.

Students enrolled in courses that require extracurricular activity as part of the course grade need not establish eligibility for participation. The courses are:

- Marching band
- Pep band
- Orchestra
- Jazz band
- Choir
- Chamber choir
- Swing choir
- Debate
- Forensics
- Drama
- Courses with varying titles which have a performance requirement

Students not enrolled in the courses listed above or others to which the policy might apply must establish eligibility requirements if they wish to participate in a school production or an activity.

Eligibility may be monitored at:

- the beginning of each activity's season,
- the designated time in the annual calendar when form 939's are issued,
- the quarterly grading period,
- the semester grading period.
- Additional eligibility checks may be conducted at any time as needed for students' participating in any school activity.

Teachers will be encouraged to monitor students' academic progress during the semester and notify coaches and sponsors about unsatisfactory class work and failing grades. The purpose is to emphasize the importance of academic success as students participate in school activities.

Educational Programs

Des Moines Public Schools provides students with more options to meet their educational needs and interests than any place in Iowa. Through programs like Central Campus and Central Academy and the English Language Learners Program, the school district provides educational programming as diverse as the people who learn and live in our community.

Central Academy

Central Academy fosters academic excellence through the challenge of a compacted curriculum and the stimulation of intensive work with the students' intellectual peers.

Central Academy is listed in the top 1% of educational programs nationally, as recognized by the College Board.

Students are encouraged to develop skills, maturity, and responsibility to pursue high academic achievement. Students who successfully complete the program are prepared for the competitive demands of top colleges and universities.

The curriculum offers acceleration and enrichment beyond the traditional high school program and prepares students to take Advanced Placement coursework by 10th grade. The results for Academy students on Advanced Placement exams have continually exceeded state and national averages in each of the subject areas. Nearly 4,000 prestigious AP Scholar awards have been earned by Central Academy students since 1991.

Identification for 8th Grade Academy: The 8th Grade Academy program is designed for students who are academically prepared to accelerate their learning by one grade in three subjects. Students are evaluated according to a comprehensive set of criteria to ensure they are prepared for three rigorous, accelerated classes. These criteria include:

- Performance on standardized assessments (Iowa Assessments) in reading, mathematics, and science
- Grades in core subject areas
- Placement in mathematics
- Gifted/Talented identification
- Teacher recommendation
- Students in the 8th Grade Academy take three academic courses at the high school level. All students must take English. Students then study two additional subjects with classes in mathematics, science, and/or social studies available. Students *may* elect to receive high school credit upon successful completion of each course. Course options for 8th grade students are:
 - English: Language, Literature, & Composition (equivalent to English I)
 - Mathematics*: Algebra I, Geometry, Radically Accelerated I, or Algebra II -- *A placement exam will be given to determine mathematics course placement*
 - Science: Conceptual Physics & Environmental Science (one semester of each class will prepare students for Accelerated Chemistry and Accelerated Biology in 9th grade)
 - Social Studies: US Government & Current Issues -- *This course satisfies the State of Iowa and Des Moines Public Schools' graduation requirement for US Government*

What if a student does not attend academy in 8th grade?

Interesting Fact: 38% of current 10th grade students in the Academy's Gifted Core Pathway did not attend as 8th graders. Children mature and develop at different rates. Some students need an extra year

at a normal pace to hone skills and develop talents so that they are genuinely ready to accelerate. Putting a student in an accelerated class too soon can damage the student’s skill development and growth. The middle school intervention teams and the Academy Intervention team are working collaboratively and carefully considering students individually for placement in this program for students who are discrepant from their peers. Not attending Academy in 8th grade does not rule out the option to attend later.

For additional information about Central Academy, please talk with your school counselor and visit <http://ca.dmschools.org>

International Baccalaureate Diploma Programme at Central Academy

The IB Diploma Programme curriculum consists of six academic areas and three core requirements. Over the course of the two-year program, students:

- study six subjects chosen from six subject groups
- follow a Theory of Knowledge course (TOK)
- complete an extended essay (4,000 word maximum)
- participate in creativity, action, service (CAS) approximately 3 hours per week

Normally three of the six subjects are studied at higher level (HL) and the remaining three subjects are studied at standard level (SL).

Students who earn the IB Diploma are often accepted at higher rates than the general population at highly selective universities. While there are no “prerequisites” for IB courses, early planning and preparation are keys to success in Diploma Programme courses. Earning the IB Diploma is not a guarantee, even if students complete all of the requirements. Therefore, students must be prepared to earn a diploma from Des Moines Public Schools, or their district of residence. IB courses fulfill many graduation requirements of the Des Moines Public Schools and the state of Iowa. However, students should verify their progress toward graduation each year with the counselor at Central Academy or at their home school. Because of the demanding and inflexible course load required by IB, students who are credit deficient at the beginning of eleventh grade will not be considered for acceptance into the IB Diploma Programme. Though there are recommended paths to the IB Diploma, students should work with their school counselor to design a path of study that considers their individual goals and meets preparation standards.

Subject Area	Current 8 th Grade Course	Recommended 9 th Grade Course	Recommended 10 th Grade Course
Mathematics	Pre-Algebra	Algebra I and Geometry	Algebra II
	Algebra I	Geometry	Algebra II
	Geometry	Algebra II	Pre-Calculus
English	Language Arts 8	Advanced English I/English I	Advanced English II/English II
	Lang, Lit, & Composition (CA)	World Lit & Speech (CA)	Advanced Amer. Lit (CA)
Science	Science 8	Accelerated Chem & Physics * OR Biology & Conceptual Physics	Biology/AP Biology OR Accelerated Chem & Physics
	Biology & Pre Chem/Phys (CA)	Accelerated Chem & Physics	AP Biology, Chemistry OR Physics
Social Studies	Civics	Government & Economics OR US History	AP US History/US History OR Government & Economics
	Government & Current Issues (CA)	AP Human Geography	AP US History & Economics
Art	Art 8	Art I and Art II	Art I and Art II (if not previously taken) Drawing/Painting OR 3D Design

Advanced Placement at Central Academy

Central Academy is regularly ranked as the top Advanced Placement program by the [Belin-Blank Center](#) at the University of Iowa. AP course offerings at Central Academy include Studio Art, Art History, English Language and Composition, English Literature and Composition, Calculus at the AB and BC levels, Biology, Chemistry, Physics, American History, European History, World History, Macroeconomics, and Comparative Government and Politics.

Course Offerings at Central Academy

Course	Course Name	Course	Course Name
ART105	Intro to Art History S1	MIS131	Directed Study (NC)
ART106	Intro to Art History S2	MIS132	Directed Study (NC)
ART231	Intermediate Art History S1	MIS315	Leadership S1
ART232	Intermediate Art History S2	MIS316	Leadership S2
ART351A	Beginning Throwing S1	MIS323	GT Extended Lrng Seminar II
ART352A	Beginning Throwing S2	MIS326	Enrichment
ART353A	Intermediate Throwing S1	MIS381A	IB CAS A S1
ART354A	Intermediate Throwing S2	MIS382A	IB CAS A S2
ART451A	Advanced Throwing S1	MIS431	AP Seminar S1
ART452A	Advanced Throwing S2	MIS432	AP Seminar S2
ART453A	Advanced Throwing II S1	MIS481A	IB CAS B S1
ART454A	Advanced Throwing II S2	MIS482A	IB CAS B S2
ART503	*AP Art: Art History S1	MIS850	Enrichment
ART504	*AP Art: Art History S2	MTH111A	Algebra I S1
ART551A	*IB Visual Arts SL S1	MTH112A	Algebra I S2
ART552A	*IB Visual Arts SL S2	MTH211A	Academy Geometry S1
ART553A	*IB Visual Arts SL S3	MTH212A	Academy Geometry S2
ART554A	*IB Visual Arts SL S4	MTH253A	Rad Acc Geom/Alg IIA S1
ART555A	*IB Visual Arts HL S1	MTH254A	Rad Acc Geom/Alg IIA S2
ART556A	*IB Visual Arts HL S2	MTH311A	Academy Algebra II S1

ART557A	*IB Visual Arts HL S3
ART558A	*IB Visual Arts HL S4
LA227A	Speech
LA251A	Adv Lang, Lit, & Comp S1
LA252A	Adv Lang, Lit, & Comp S2
LA303A	Creative Writing 1
LA411A	Creative Writing 2
LA413A	Studies in World Literature S1
LA414A	Studies in World Literature S2
LA451A	*Adv American Lit S1
LA452A	*Adv American Lit S2
LA529	*College AP Lit & Comp
LA530	*College AP Lit & Comp
LA531	*College AP Lang & Comp S1
LA532	*College AP Lang & Comp S2
LA555A	*IB English A1 HL S1
LA556A	*IB English A1 HL S2
LA557A	*IB English A1 HL S3
LA558A	*IB English A1 HL S4
LA711	CA Prep Language Arts/Reading
LA712	CA Prep Language Arts/Reading
MIS072	Attending Campus
MIS123	Teacher Aide 1 (NC)
MIS124	Teacher Aide 2 (NC)
MIS125	Lab Assistant 1
MIS126	Lab Assistant 2
Course #	Course Name
PHY227	Psychology of Health & Fit

MTH312A	Academy Algebra II S2
MTH401A	*Pre-Calculus S1
MTH407	Adv Math Problem Solving S1
MTH408	Adv Math Problem Solving S2
MTH451A	Rad Acc Alg IIA
MTH452A	Rad Acc Alg IIB
MTH453A	*Rad Acc Precalc A
MTH454A	*Rad Acc Precalc B
MTH501A	*AP Calculus AB S1
MTH502A	*AP Calculus AB S2
MTH503A	*AP Calculus BC S1
MTH504A	*AP Calculus BC S2
MTH519A	*Linear Alg Diff Equations S1
MTH520A	*Linear Alg Diff Equations S2
MTH534	*College Pre-Calculus S2
MTH561A	*IB Mathematics SL S1
MTH562A	*IB Mathematics SL S2
MTH563A	*IB Mathematics SL S3
MTH564A	*IB Mathematics SL S4
MTH571A	IB Math Studies SL S1
MTH572A	IB Math Studies SL S2
MTH573A	IB Math Studies SL S3
MTH574A	IB Math Studies SL S4
MTH715	7 Accel Math I-2yr S3
MTH716	7 Accel Math I-2yr S4
PHY103	Lifelong Rec Activities
Course #	Course Name
SOC557A	*AP College Comparative Gov

PHY901	Contract PE
SCI201	Environmental Science S1
SCI205	Conceptual Physics S1
SCI321	Scientific Research S1
SCI322	Scientific Research S2
SCI351A	Accelerated Chemistry S1
SCI352A	Accelerated Chemistry S2
SCI357A	Accelerated Biology S1
SCI358A	Accelerated Biology S2
SCI507A	*AP Biology S1
SCI508A	*AP Biology S2
SCI523	*College AP Chemistry S1
SCI524	*College AP Chemistry S2
SCI525A	*AP Physics 1 S1
SCI526A	*AP Physics 1 S2
SCI527A	*AP Physics 2 S1
SCI528A	*AP Physics 2 S2
SCI529	*AP Physics C S1
SCI530	* AP Physics C S2
SCI555A	*IB Biology HL S1
SCI556A	*IB Biology HL S2
SCI557A	*IB Biology HL S3
SCI558A	*IB Biology HL S4
SCI563A	*IB Chemistry HL S1
SCI564A	*IB Chemistry HL S2
SCI565A	*IB Chemistry HL S3
SCI566A	*IB Chemistry HL S4
SCI573A	*IB Physics HL S1

SOC569A	*IB Hist of the Americas HL S1
SOC570A	*IB Hist of the Americas HL S2
SOC575A	*IB 20 Cntry Wld Hst HL S1
SOC576A	*IB 20 Cntry Wld Hst HL S2
SOC577A	*IB TOK A S1
SOC578A	*IB TOK A S2
SOC581A	*IB TOK B S1
SOC582A	*IB TOK B S2
TEC453A	Computer Science II S1
TEC454A	Computer Science II S2
TEC551	*AP Computer Sci Principles S1
TEC552	*AP Computer Sci Principles S2
TEC557A	*AP Computer Science A S1
TEC558A	*AP Computer Science A S2
WL103	French I S1
WL104	French I S2
WL131	Chinese I S1
WL132	Chinese I S2
WL141	German I S1
WL142	German I S2
WL151	Italian I S1
WL152	Italian I S2
WL161	Japanese I S1
WL162	Japanese I S2
WL181	Arabic I S1
WL182	Arabic I S2
WL203	French II S1
WL204	French II S2

SCI574A	*IB Physics HL S2
SCI575A	*IB Physics HL S3
SCI576A	*IB Physics HL S4
SCI577A	*IB Environmental Sys & Soc S1
SCI5782A	*IB Environmental Sys & SocS2B
SCI578A	*IB Environmental Sys & Soc S2
SOC101	Current Issues
SOC213	Wld Hist: People & Place S1
SOC214	Wld Hist: People & Place S2
SOC405A	Government
SOC511A	*AP Macroeconomics
SOC515A	*College AP World History S1
SOC516A	*College AP World History S2
SOC521A	*College AP US History S1
SOC522A	*College AP US History S2
SOC523A	*College AP European HistoryS1
SOC524A	*College AP European HistoryS2
Course #	Course Name
WL343	*German III S2
WL345	*German IV S1
WL347	*German IV S2
WL351	*Italian III S1
WL353	*Italian III S2
WL355	*Italian IV S1
WL357	*Italian IV S2
WL361	*Japanese III S1
WL363	*Japanese III S2
WL365	*Japanese IV S1

WL231	Chinese II S1
WL233	*Chinese II S2
WL241	German II S1
WL243	*German II S2
WL251	Italian II S1
WL253	*Italian II S2
WL261	Japanese II S1
WL263	*Japanese II S2
WL281	Arabic II S1
WL282	Arabic II S2
WL303	French III S1
WL304	French III S2
WL331	*Chinese III S1
WL333	*Chinese III S2
WL335	*Chinese IV S1
WL337	*Chinese IV S2
WL341	*German III S1
Course #	Course Name
WL505	*AP French V S1
WL506	*AP French V S2
WL541A	*IB French B SL S1
WL542A	*IB French B SL S2
WL543A	*IB French B SL S3
WL544A	*IB French B SL S4
WL551A	*IB Spanish B SL S1
WL552A	*IB Spanish B SL S2
WL553A	*IB Spanish B SL S3
WL554A	*IB Spanish B SL S4

WL367	*Japanese IV S2
WL381	Arabic III S1
WL382	Arabic III S2
WL441A	German IS S1
WL442A	German IS S2
WL481	Arabic IV S1
WL482	Arabic IV S2
WL503	*AP French IV S1
WL504	*AP French IV S2

WL555A	*IB Spanish Ab Initio SL S1
WL556A	*IB Spanish Ab Initio SL S2
WL557A	*IB Spanish Ab Initio SL S3
WL558A	*IB Spanish Ab Initio SL S4
WL577	*IB Chinese Ab Initio SL S1
WL578	*IB Chinese Ab Initio SL S2
WL 579	*IB Chinese Ab Initio SL S3
WL580	*IB Chinese Ab Initio SL S4

Central Campus

Central Campus complements and extends the programs of Central Iowa Schools, offering unique academic and career opportunities that direct, inspire, and motivate a diverse group of students.

Central Campus serves as the Premier Regional Academy within the Des Moines Public Schools. Over two thousand students from dozens of Iowa High Schools experience our Advance Career Training Programs. With academic planning and support in high school, students have the opportunity to earn community college credit and two-year Associates Degree at no extra cost.

Located at the heart of the model district for urban education, Central Campus offers hands on, real world work-based educational programs to a highly diverse community and surrounding areas. One of our greatest strengths is the friendships and networking of students from diverse backgrounds and communities. Des Moines Public Schools dedicates itself to excelling at unique and technologically advanced opportunities for all learners. Central Campus commits itself to providing equal access and prospects through rigorous academic and career training experiences for all.

Requests for Central Campus courses begin with inquiries made through your home high school counselor or scheduling contact. You are also welcome to call Central Campus at 515-242-7676. Central Campus is open to all qualifying high school students regardless of home district. Criteria for enrollment in Central Campus programming with requests exceeding capacity is as follows: the student expresses strong interest in a career path, is credited as a junior or senior (does not apply to courses designed for sophomores or three-year programs), has met perquisites at their home high school, is on track to graduate, has a strong attendance record, demonstrates strong citizenship skills, and enrollment would increase opportunities for underserved populations. No one indicator is a deciding factor in enrollment. Students not meeting these criteria may work with their counselor and school administrator to seek an exception. Students wishing to request a program at Central Campus need to complete the form found at <http://tiny.cc/enroll2017> for any and all programs they are interested in pursuing at Central Campus. Out of district students will also need to have a parent or guardian fill out and submit this electronic form: https://sis.dmps.k12.ia.us/campus/onlineregloginKiosk_desmoines.jsp

For additional information about Central Campus, please talk with your school counselor and visit <http://centralcampus.dmschools.org>

Central Campus Courses and Programs of Study

Communication Media Academy

Broadcasting & Film (LA363/364, LA463/464, LA475/476)

The Broadcasting & Film Department at Central Campus is a dynamic, two-year program which concentrates on the creative and communication aspects of the radio/television/film industry. Emphasis is placed on analysis of career paths and the production techniques associated with gainful employment. Considerable time is spent working on the craft of writing, reading, equipment operation, announcing, creative thinking and management skills. The program may include studio assignments in the FCC-licensed radio station, KDPS 88.1 FM (and streaming live online: kdpscentral.streamon.fm), or submission of film and television projects to DMPS-TV. Students also have the opportunity to submit work to various contests and festivals, such as the Wild Rose Film Festival, 48 Hour Film Festival, Iowa Motion Pictures Association Film Festival, Cedar Rapids Film Festival and John Drury Radio Awards. Projects may be submitted to colleges and universities in pursuit of scholarships in the area of Broadcasting & Film.

Prerequisites: C or better in Speech and English. Grades 10-11-12

Commercial Photography (ART319/320, LA421/422)

In the Commercial Photography program, students obtain skills in film processing, darkroom procedures, studio shooting techniques, camera techniques, photographic history, presentation skills and digital imaging. Portfolio development enables students to apply for employment, scholarships and college admission. Students will publicly display work at the Central Campus Student Art Exhibit and other exhibitions. It is recommended, but not required, that students have a 35mm film camera with manual options.

Prerequisites: minimum of 2.5 GPA or a B in two of the following courses: Art 1, Art 2, other art classes, Photography, Multimedia or other project-based class. Grades: 11-12

Graphic Communications (ART361/362, 461/462, 469/470)

Graphic Communication provides education, training and real world graphic design and print production experiences. Through close relationships with industry experts, the program's curriculum and industry experiences reflect the technological expectations of the graphic communication industry. First-year students complete a wide variety of hands-on projects in design, pre-press, print production, and bindery. Participation in frequent industry tours allows students to increase the range and depth of their understanding. All students enrolled in the second year of the program are expected to complete a variety of increasingly complex project work. They also are expected to participate in the design, layout and production of various "live jobs." Both the "live jobs" and the projects are intended to further develop their skills and overall understanding of the graphic communication industry. Second-year students may choose the privilege of participating in job-shadow and internship experiences. Job shadowing and internships provide a stronger foundation and background for the advanced student desiring to enter the industry. For students planning to continue their postsecondary education, these foundational experiences provide the opportunity to earn additional college credit.

Prerequisites: Two courses in any of the following areas highly recommended: Art, Graphic Design, Computer Applications, Journalism, and Technology Education. Grades: 10-11-12

Education & Leadership Academy

Army JROTC (MIS173/175, MIS273/275, MIS373/374, MIS473/475)

Army JROTC teaches students the value of citizenship, leadership, service to the community, and personal responsibility. The program promotes a sense of accomplishment, while instilling self-esteem, teamwork, and self-discipline. JROTC's focus is reflected in its mission statement, "Motivating young people to be better citizens." The program prepares students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. JROTC is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation. Students participate in a regular physical education classes as part of the JROTC program.

Prerequisite: GPA 2.5 recommended. Grades: 9-10-11-12

Criminal Justice (SOC461/462)

The Criminal Justice program gives students the opportunity to explore careers in police work, criminal law, crime scene investigation, and other related vocations. Faculty works closely with the Des Moines Police Department and Polk County Sheriff's Office to provide authentic experience in a vibrant law enforcement community. Students participate in mock crime scene scenarios and job shadowing professionals.

Early Childhood Careers (FCS325/326, FCS425/426)

The Early Childhood Careers program prepares students to work with children from infancy to eight years of age. Students combine classroom instruction with practicum experiences in child care centers, Head Start programs, and elementary schools. Successful completion of the second year of the program enables students to earn a national credential, Child Development Associate. Students complete the training required by the Iowa Department of Human Services for persons working in childcare centers. Upon completing this program, they can find employment in childcare centers or may choose to further their studies in elementary or early childhood education. CPR training is offered with this course.

Prerequisites: GPA of 2.5 or better, Child Development recommended. Grades: 11-12

Sports Officiating and Leadership

In Sports Officiating and Leadership, students become IHSAA and IHSGAU certified officials in a variety of sports. They will have film study through industry-leading Hudl software to understand theories and movements of the sport to better understand rules and positioning. Along the way, they will have live on site training in cooperation with the other programs located in our facility performing "intermural" sports to gain experience and practice in live game situations. After students earn certification with the state of Iowa they will be placed in jobs within the DMPS District to start earning money as a fully certified official. Throughout class students will prepare business cards and develop an officiating philosophy for work after class ends. This is a great opportunity, for young adults, to gain confidence and job experience in a field they can do for the rest of their life. CPR training is offered with this course

Prerequisites: GPA of 2.0 or better. Grades: 11-12

Urban Leadership Academy

Urban Leadership is committed to empowering students on their journey to becoming community-based activists and entrepreneurs. Based in the principles of hip-hop culture, students engage in an in-depth study of social movements shaping history and urban settings across the United States. Through the use of various mediums such as the written and spoken word, performance-based literacy, urban arts, and youth + community summits, and internships, students are given a platform to become the leaders of today. The objective is to provide students with in-depth knowledge regarding social movements shaping US History, equipping them with the leadership skills necessary to becoming change agents in their local communities. This course includes one semester of Digital Media. Students will earn elective high school English credit with this course.

Prerequisites: Strong interest in Social Justice and the Urban Arts. Grades: 9-10-11-12

Urban Teacher Academy

Students learn first-hand elementary, middle school, or high school career expectations and experiences through the Urban Teacher Academy. They acquire extensive field experience through tutoring, field trips, and classroom observations. There is also time set aside for internships with master teachers and guest speakers who are experts in the field of education. Students also visit colleges and universities to gain insight into the post-secondary option that might be best for them. This program provides an excellent foundation and transition to the teacher education programs of four-year liberal arts institutions. Students will earn elective high school English credit with this course.

Prerequisites: GPA of 2.5 or better. Grades 11-12

Engineering Academy

Computer Aided Design Technology

This program provides occupational and technical skills for job entry in manufacturing and construction or college entrance in the fields of engineering, design, and architecture. You will be introduced to principles and practices, engineering/construction/manufacturing standards, and the use of references and technical information. In this program students design, document, and build their activities using industry leading software and equipment. Participation in a student organization is encouraged and industry software certifications are available.

The Computer Aided Design Technology program is a two or four semester career area that provides students with the occupational and technical skills for job entry in manufacturing and construction or college entrance in the fields of engineering, design, and architecture.

The engineering/manufacturing curriculum of this course emphasizes principles and practices, engineering standards and the use of references and technical information for production of manufactured goods. Industry based 2D and 3D computer aided design skills will be taught, as well as introduction to computer aided machining (CAM) and computer aided coordinate measuring (CMM). Rapid prototyping will be integrated with the use of multiple types of 3D printers and computer numerically controlled (CNC) equipment.

The architectural curriculum of this course emphasizes design studies and technical information, and the production of construction drawings. Interior design, landscape design and the development and study of energy efficient housing is incorporated in the curriculum to prepare students for changes in the housing industry. 2D and 3D computer aided design skills in architecture and construction industries are practiced and critiqued by professionals. Model building is used to improve visualization skills.

Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam. Software certified user certifications are available.

Prerequisites: Mechanical/architectural drafting/design recommended. Grades: 10-11-12

Civil Engineering & Architecture

Civil Engineering and Architecture emphasizes design studies and technical information, and the production of construction drawings. Interior design, landscape design and the development and study of energy efficient housing is incorporated in the curriculum to prepare students for changes in the housing industry. 2D and 3D computer aided design skills in architecture and construction industries are practiced and critiqued by professionals and model building is used to improve visualization skills. Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam. Software certified user certifications are available.

Prerequisites: Mechanical/architectural drafting/design recommended. Grades: 10-11-12

Computer Software Engineering

Students successfully completing the Computer Software Engineering program find doors open to them in nearly any career using computers. Create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions to improve the lives of others while weighing the ethical and societal responsibilities of computing and connectivity.

Prerequisites: POE or IED recommended. Grades: 10-11-12

Engineering Development and Design

The curriculum of the Engineering Development and Design program emphasizes principles and practices, engineering standards and the use of references and technical information for production of manufactured goods. Industry based 2D and 3D computer aided design skills are taught, as well as introduction to computer aided machining (CAM) and computer aided coordinate measuring (CMM). Rapid prototyping is integrated with the use of multiple types of 3D printers and computer numerically controlled (CNC) equipment. Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam.

Prerequisites: POE or IED recommended. Grades: 10-11-12

Engineering, Robotics & Electronics

The one-year Engineering, Robotics and Electronics program focuses on the application of electronics and physics. Students work with the operation of electronic devices and integrated circuits. Students apply this knowledge to project-driven course work, including the operation and programming of robotic systems. This course is designed for students with an interest in science, engineering, or electronics. This program includes Digital Electronics course work.

Digital Electronics

Digital Electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of the course is the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.

Prerequisites: "C" in Algebra I recommended. Grades: 10-11-12

Environmental & Agricultural Sciences Academy

Aquarium Science

In Aquarium Science, students experience aquatic animal husbandry and aquaculture in a facility modeled after a professional public aquarium laboratory. They learn to replicate environmental conditions in the lab similar to those on a coral reef by studying the effects of lighting, water quality, and nutrition on the saltwater organisms in their care. Hands-on activities in the laboratory include breeding saltwater clownfish, propagating live corals and anemones on the coral farm, breeding jellyfish, and live food culture. This program prepares students for careers in Marine Biology, Environmental Science, commercial aquaculture (fish hatcheries), public aquariums, aquarium maintenance, pet industries and most environmental fields. Students in Aquarium Science are eligible to participate in an optional marine field ecology trip in the spring semester for DMACC credit. (Aquarium Science is an elective course and does not satisfy high school science credit requirements.)

Prerequisite: GPA of 2.5 or better. Biology, Chemistry recommendation Grades: 10-11-12

Marine Biology

The Marine Biology program puts students face to face with hundreds of marine organisms found around the world. Students won't just learn about the ocean from books, they also take care of over 100 "tiny oceans" during the year and personally interact with sharks, jellyfish, corals, nautilus, and hundreds of fish in a new facility modeled after university laboratories and public aquariums. Students are also given the opportunity to conduct their own research projects, participate in science fairs, practice field work by

kayaking, dissect different organisms, and more. What makes this program so unique is that it is a student-run laboratory and aquarium which gives each student the opportunity to literally get their hands wet in everything that goes on, but to also leave a legacy for other students by coming up with new ideas for aquariums and different marine organisms to have in the program.

An optional Field Studies course occurs in March where the students are able to put their skills to the test, earn college credit, and have a lot of fun! For 1-2 weeks, students become "Marine Biologists" and participate in several activities to gain an understanding of life as a marine biologist. Previous trips have gone to California, Texas, and Florida. Most expenses for this trip are the responsibility of the student. At least one fundraiser is made available to students to help offset the cost.

Prerequisite: GPA of 2.5 or better, C or better in Geometry or Algebra II, English, and Biology or other approved science. Grades: 10-11-12

Agri-Science Academy

Animal Science and Horticulture

At our Agriculture Science Academy at 201 County Line Road on the south side of Des Moines (south of Blank Park Zoo), students learn about animals and plants through hands-on activities and exciting projects. The nation's largest secondary school student-run greenhouse and livestock facility allow them to gain practical experience in fields including agricultural business, environmental science, horticulture, landscaping, and veterinary careers. Students are enrolled as members of FFA, the national youth leadership organization, which enhances speaking and leadership skills while attending the academy. Grades 10-11-12

Landscaping

Landscaping class is a hands-on class where students learn actual design principals; learn the techniques to such things as site preparation, figuring a list of materials for the project and the cost of the project and what one would charge the customer. The first semester students actually work on building and completing the class project on site at the agriculture lab. Theory is put into practice.

The second semester we move into the classroom and work with the latest software learning through CAD how to use the computer to completely design a landscape before going to the job site. We go through various tutorials to master the process. Then the students can actually design landscape customers projects through pictures provide by the customer by incorporation landscaping plants we sell through our annual spring plant sale.

In environmental science we tackle the latest environmental issues facing both Iowa and the United States. Key topics covered are soils, water quality and management, forestry, wildlife, aquatics. Students have the opportunity to gain collage credit for soils credit 154 though Iowa State free of charge. This class is based with many classroom hours out in the field doing hands on work. Also many labs are part of the class. We do many field trips to off site for learning activities.

Prerequisites: Strong interest in career field. Grades: 11-12

Environmental Science

Vet Careers

Agricultural Business

Energy & Sustainability

The Iowa Energy and Sustainability Academy (IESA) is a cross-curricular class which prepares students for entry into the high-tech world of green building and various energy technologies. Students study the science of energy conservation and management, sustainability, field ecology, practical design, and much more in a hands-on, project-based, community-based learning environment. An optional spring break trip can be a supplement to this cutting-edge career area.

Some unique opportunities in IESA:

- Hands on science with water, air, and soil test kits.
- Work with real small scale wind generators, solar photovoltaic cells, and hydrogen fuel cells.
- Unique –special field experiences such as Minneapolis and Chicago to visit such things as zoos, malls, and museums. See efforts to recycle, save energy, and take care /preserve plants/animals. Also visit wind farms and natural areas throughout Iowa.

Prerequisites: Strong interest in sustainability career. Grades: 9-10-11-12

Marine Biology

The Marine Biology program puts students face to face with hundreds of marine organisms found around the world. Students won't just learn about the ocean from books, they also take care of over 100 "tiny oceans" during the year and personally interact with sharks, jellyfish, corals, nautilus, and hundreds of fish in a new facility modeled after university laboratories and public aquariums. Students are also given the opportunity to conduct their own research projects, participate in science fairs, practice field work by kayaking, dissect different organisms, and more. What makes this program so unique is that it is a student-run laboratory and aquarium which gives each student the opportunity to literally get their hands wet in everything that goes on, but to also leave a legacy for other students by coming up with new ideas for aquariums and different marine organisms to have in the program.

An optional Field Studies course occurs in March where the students are able to put their skills to the test, earn college credit, and have a lot of fun! For 1-2 weeks, students become "Marine Biologists" and participate in several activities to gain an understanding of life as a marine biologist. Previous trips have gone to California, Texas, and Florida. Most expenses for this trip are the responsibility of the student. At least one fundraiser is made available to students to help offset the cost.

Prerequisite: GPA of 2.5 or better, C or better in Geometry or Algebra II, English, and Biology or other approved science. Grades: 10-11-12

Family & Consumer Sciences Academy

Culinary Arts & Restaurant Management

Culinary Arts students explore opportunities for employment in the hospitality and food service industry through the operation of the student-run Central Campus Café. Students receive their ProStart certification from the National Restaurant Association and compete in local and national competitions. Students plan and prepare food, use institutional equipment, set up the dining room, and serve customers on designated Central Campus Café days. Students also have the chance to visit area restaurants and other hospitality businesses.

Prerequisites: 2.0 GPA, food course recommended. Grades: 10-11-12

Fashion Design & Merchandising

Within the creative discipline of Fashion Design, students discover fascinating fundamentals of the fashion industry and learn about all of the exciting behind-the-scene details that make every show and every display perfect. Study famous and up-and-coming designers, explore historical and current trends, and learn the importance of alterations and proper fit. In this program students building upon their sewing skills, create fashion drawings, and analyze the designs of others. The program enhances entrepreneurial skills and techniques to successfully market their designs in the fashion industry. The culminating event for this program is a spring fashion show that is created and produced by the fashion students and other cooperating Central Campus programs.

Prerequisites: A or B in Sewing Technology or Fashion recommended. Grades: 11-12

Health Sciences Academy

Career Opportunities in Health

Career Opportunities in Health introduces students to a variety of health careers through a curriculum that integrates academic and workplace skills. Rotations at UnityPoint Health-Des Moines hospital and clinic locations, as well as other private clinics throughout the metro, provide observation experiences that allow students to explore careers of their interest, learn about medicine and work towards an understanding of the big picture of healthcare while developing personal skills.

Prerequisite: GPA of at least 2.5. Excellent attendance, submit an application with teacher recommendation and attend a program orientation. Grades: 11-12

Anatomy & Physiology

The yearlong advanced Anatomy and Physiology program covers the structure and function of the human body from the cellular level to organ systems. The organ systems studied are the skin and integumentary system, skeletal and muscular systems, nervous system and the senses, endocrine system, cardiovascular system, lymphatic system and immunity, respiratory system, urinary system, digestive system – including nutrition, and reproductive system. Anatomy and Physiology offers college credits through laboratory and exams, and experimental write-ups and projects.

Prerequisites: Biology with Chemistry as a co-requisite. Grades: 11-12

College Genetics & Microbiology

The yearlong advanced Genetics and Microbiology program looks at the medical world through our genes. Students extract DNA, perform experiments normally only done in research and college labs. Additionally, they study the effects of genetics on cancer; the controversy and uses of stem cells; grow glowing bacteria art and many more fascinating projects. Students take field trips to research centers, colleges, and other pertinent sites that help them in their understanding of the genetic world. College Genetics and Microbiology offers college credits and students who successfully complete the program with a grade of B or better receive a \$500 college scholarship.

Prerequisites: Biology with Chemistry as a co-requisite. Grades: 11-12

Health Science Specialist

Within the Health Science Specialist program, students develop nursing assistant skills in the classroom and laboratory setting at Central Campus. Clinical experience also takes place at local hospitals and long term care facilities; learning the skills and vocabulary of health care aiding to develop a successful career

in the health field. This program also provides students the opportunity to obtain health care provider BLS certification. Upon completion of this course, students are prepared to take the Certified Nurse Assistant (CNA) exam for Iowa.

Prerequisites: 2.5 GPA, excellent attendance, interest in a health career, attend program orientation, submit student application and teacher recommendation. Current physical, updated immunizations and influenza vaccine required. Hepatitis B vaccine is recommended. Grades: 11-12

Nurse Aide (Basic & Advanced)

These programs give students the opportunity to learn the necessary skills and training to work in various health care settings. They experience classroom and laboratory instruction along with supervised clinical experience in local long-term care (nursing home) and hospital settings. The advanced program also provides students the opportunity to obtain health care provider BLS certification.

Nurse Aide certification is required for admission to most Iowa nursing schools. Either of these courses prepares students for the nurse aide certification. This course includes classroom and laboratory instruction at Central Campus and supervised clinical experience at various health care settings. In addition to the content of the 75-hour Nurse Aide class, the 150-hour Advanced Nurse Aide class covers skills and knowledge utilized by nurse aides in skilled-care units and in hospital areas. Content in the 150-hour course is presented at a faster pace than in the 75-hour Nurse Aide class.

Prerequisites: 2.0 GA for 75-hour Nurse Aide course and 2.5 GPA or better for the Advanced Nurse Aide class, have excellent attendance, submit a teacher recommendation, submit a student application and attend a program orientation. A current physical and updated immunizations are required, Hepatitis B vaccine is required. Grades:11-12

Skilled Trades Academy

Computer Aided Design Technology

This program provides occupational and technical skills for job entry in manufacturing and construction or college entrance in the fields of engineering, design, and architecture. You will be introduced to principles and practices, engineering/construction/manufacturing standards, and the use of references and technical information. In this program students design, document, and build their activities using industry leading software and equipment. Participation in a student organization is encouraged and industry software certifications are available.

The Computer Aided Design Technology program is a two or four semester career area that provides students with the occupational and technical skills for job entry in manufacturing and construction or college entrance in the fields of engineering, design, and architecture.

The engineering/manufacturing curriculum of this course emphasizes principles and practices, engineering standards and the use of references and technical information for production of manufactured goods. Industry based 2D and 3D computer aided design skills will be taught, as well as introduction to computer aided machining (CAM) and computer aided coordinate measuring (CMM). Rapid prototyping will be integrated with the use of multiple types of 3D printers and computer numerically controlled (CNC) equipment.

The architectural curriculum of this course emphasizes design studies and technical information, and the production of construction drawings. Interior design, landscape design and the development and study of energy efficient housing is incorporated in the curriculum to prepare students for changes in the housing industry. 2D and 3D computer aided design skills in architecture and construction industries are practiced and critiqued by professionals. Model building is used to improve visualization skills.

Industry leading software packages learned and used include Autodesk products: AutoCAD, Inventor, Revit; Dassault Systems Solidworks, and CNC Software Inc. Mastercam. Software certified user certifications are available.

Prerequisites: Mechanical/architectural drafting/design recommended. Grades: 10-11-12

Home Building

In the Home Building program, students construct a house from the basement to the roof. This program concentrates on craftsmanship in framing, floors, trim, cabinetry, and finish work. First year students are involved in building sheds, garages and second year students build a house. Students learn teamwork and participate in budgeting, purchasing, and estimating to prepare for careers in contracting. This experience has direct links to the local union apprenticeship program, DMACC and other training programs after graduating from high school.

Students have an opportunity to earn a ten-hour OSHA card for general construction, certify in Lead Safe Work Practices, Powder Actuated Tools and learn to drive a skid loader.

Prerequisites: Woodworking Tech. or Fundamentals recommended. Grades: 10-11-12

Painting & Drywall

The Painting and Drywall program focuses on getting students in the field to acquire the skills necessary for the commercial painting industry. They learn the proper use of hand and power equipment used for applying a variety of finishes. Some specific skills taught in the program include brush and roller applications, estimating costs, surface preparation, and taping for drywall applications. Along with direct links to union apprenticeships, students can earn a ten-hour OSHA card for general construction.

Prerequisites: Technical Education course recommended. Grades: 10-11-12

Welding Technology

Welding provides opportunities for students to gain skills in blueprint reading, design, layout, and fabrication of specific projects great and small. Throughout the program, they develop skills in different welds such as oxy-acetylene, shield metal arc, MIG, and plasma arc cutting. Students also receive instruction on key construction welding techniques to include pipe welding, as well as TIG welding with a variety of steels and steel alloys. This course gives them the opportunity to participate in the Student American Welding Society organization.

Prerequisites: Technical Education course recommended. Grades: 10-11-12

Technology & Systems Integration Academy

Information Technology Network Administration

Information Technology Network Administration (ITNA) is a multi-year program designed to assist students in acquiring the knowledge and skills needed for success in one of today's fastest growing career areas. Hardware courses focus on evaluation, repair and replacement of computer hardware components and the installation and configuration of computer operating systems. The software courses focus on the installation and configuration of network operating systems, network design and administration, security and troubleshooting. Students who successfully complete this program can earn IT certifications and college credits. The skills learned in this course are a solid foundation for a career in IT.

Prerequisites: B or better in Computer Applications. Grades: 10-11-12

Mobile Apps

The Mobile Apps program enables students to tap into the ever-expanding universe of software for mobile technology. The program does not expect or require any previous programming or design experience, students learn the skills they need through real-world project based learning approach. Upon successful completion of the program, students are well equipped to begin a career in computer programming on their own or for a business using the Java programming language and multiple mobile application platforms. Students are eligible to earn college credit while completing the Mobile Apps program. This college credit transfers to any accredited college, or can be used as a part of a degree obtained from DMACC. This course allows us to explore careers in IT as is relates to this course and develop an electronic portfolio of student work.

Software Design and Gaming

Delving into both technology and creativity, Software Design and Gaming immerses students into a simulated internship for a video game design company. They use the design process as well as other skills (graphic design, programming, and music generation) to create 2D and 3D video games. Game creation software is used to package images, textures, audio, media, and programming code into the final product. Students should anticipate a video game design competition in the spring semester.

Video game software compiler DarkBASIC Pro will be used to package images, textures, sounds, music, media and programming code to package final game products. Experience in software design will allow the student to realize the potential for entertainment and educational game design, application design and programming, and simulation design.

Prerequisites: Computer class recommended along with strong interest in field. Grades: 10-11-12

Transportation Academy

Introduction to Automotive

Basic physical and mechanical principals related to the transportation field, including ownership, maintenance, and related careers will be covered in this course. Through instruction, demonstrations, hands-on and problem-solving activities, students gain knowledge of skills involved in the operation and servicing of internal combustion engine systems, and the body and structural systems of various vehicles, including their parts and accessories. They also learn to apply safety as related to the vehicle, hand and power tools, test equipment, and materials common to this course. Students gain additional knowledge and skills in the cranking and charging systems, fuel systems, power transmission devices, body and chassis systems, steering components, and accessory systems. Instruction will emphasize technologies related to modern vehicles with an introduction to electronic and computer-controlled systems. Introduction to Auto Technology, Auto Collision and Welding are included in this course of study.

Prerequisites: Strong career interest. Grades: 10-11-12

Automotive Collision Repair

Students in the Automotive Collision Repair program gain the marketable trade of repairing what others have managed to destroy. They are provided with supervised experience in repairing late model automobiles. Quality workmanship, shop safety, work ethic, cooperation, dependability, and responsibility are topics of importance. Students in this program work with the latest hand and power tools unique to this trade.

Prerequisites: Technical education courses recommended along with strong career interest in the field. Grades: 11-12

Automotive Technology

The Automotive Technology program is certified by the National Automotive Technology Education Foundation (NATEF). Students complete competencies and gain skills in working with automotive engines, brakes, steering and suspension, electricity/electronics, HVAC, engine performance, and transmissions. The program is also affiliated with most of the major automotive manufacturers including Ford, General Motors, Toyota, Honda and Chrysler through AYES (Automotive Youth Educations Systems).

Students are engaged academically in the classroom learning basic automotive knowledge and skills. Students are then exposed to real world activities in the automotive lab learning how to safely diagnose, disassemble, assemble and repair all aspects of the modern automobile. Students are introduced to automotive apprentice training programs through dealership tours and job shadowing. The AYES program allows successful students the opportunity to get a head start on their career with early entrance into dealerships and repair facilities through internships and co-op agreements. Students also have the opportunity to certify in four automotive areas through Ford Motor Company in the Maintenance and Light Repair (MLR) Program. This program consists of online and classroom courses that meet Ford's training criteria.

Prerequisites: Tech Ed course recommended. Grades 10-11-12

Aviation Technology Academy

The Aviation Technology Academy at 205 County Line Road on the southside of Des Moines is designed to train students for careers in various areas of the rapidly growing Aviation Industry. Students have opportunities to become adept in Airlines Maintenance Airframe/Power Plant mechanics, Fixed Base Operators (military or corporate operations), and Piloting. The Aviation Technology Academy is only FAA Certified program at the high school level in Iowa, as well as the only high school program of its type in the entire Midwest. While students earn high school credit learning aviation technology, they also gain college credit at no additional cost.

Prerequisites: Technical education courses recommended along with strong career interest in the field.
Grades: 10-11-12

English Language Learners Program

The English Learner (EL) Program offers courses to both newly arrived immigrant students whose first language is not English, and to Long Term ELL Learners. Students are placed in courses according to their English language proficiency levels and length of time in the U.S. The unique needs of English Learners are met by the instructional methods and materials designed to increase English proficiency in listening, speaking, reading, writing, and academic language.

Goals for the district's English Language Learner Program curriculum include:

To teach the critical language, knowledge about language, and skills using language that are in college- and career-ready standards and that are necessary for English language learners to be successful in schools

To teach language functions (what students can do with language to accomplish content-specific tasks) and language forms (vocabulary, grammar, and discourse) which are needed by ELLs as they develop competence in the practices associated with English language arts & literacy and other content areas

To recognize students' diverse ethnic and cultural backgrounds and experiences

To develop social and academic language in the context of real experiences

Curriculum Coordinator

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Eng Lang Development I S1 (MIS921)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: This is a beginning course for newly arrived students who have not previously studied English or who have very Basic English skills. Students in this course are primarily Beginning Level students. This course includes vocabulary and language structures with an emphasis on communicative competence. This course receives elective credit and enrollment is concurrent with ELA Foundations I. It is the first semester of a yearlong course.

Eng Lang Development I S2 (MIS922)

PREREQUISITE: MIS921 | Offered: Spring | .5 Credit

Description: This is a beginning course for newly arrived students who have not previously studied English or who have very Basic English skills. Students in this course are primarily Beginning Level students. This course includes vocabulary and language structures with an emphasis on communicative competence. This course receives elective credit and enrollment is concurrent with ELA Foundations I. It is the second semester of a yearlong course.

Eng Lang Development II S1 (MIS933)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: This course extends the basic skills of ELD I in listening comprehension, speaking/oral communications, reading and writing. Students in this course are primarily Beginning Level students. This is a course for students who have completed ELD I coursework, have studied English approximately one year before entering U.S. schools, and /or who test at this level of proficiency. This course receives elective credit. Enrollment is concurrent in ELA Foundations II. It is the first semester of a yearlong course.

Eng Lang Development II S2 (MIS934)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: This course extends the basic skills of ELD I in listening comprehension, speaking/oral communications, reading and writing. Students in this course are primarily Beginning Level students. This is a course for students who have completed ELD I coursework, have studied English approximately one year before entering U.S. schools, and /or who test at this level of proficiency. This course receives elective credit. Enrollment is concurrent in ELA Foundations II. It is the second semester of a yearlong course.

Eng Lang Development III S1 (LA923)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: This course continues to extend the basic skill of ELD 2 listening comprehension, speaking/oral communication, reading and writing. Students in this course are primarily Early Intermediate students. This course is for students who have successfully completed ELD 2 coursework, have studied English approximately two years before entering U.S. schools, and/or who test at this level. This course receives English credit. This course can be concurrent enrollment with ELL English I, or English I. It is the first semester of a yearlong course.

Eng Lang Development III S2 (LA924)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: This course continues to extend the basic skill of ELD 2 listening comprehension, speaking/oral communication, reading and writing. Students in this course are primarily Early Intermediate students. This course is for students who have successfully completed ELD 2 coursework, have studied English approximately two years before entering U.S. schools, and/or who test at this level. This course receives English credit. This course can be concurrent enrollment with ELL English I, or English I. It is the second semester a yearlong course.

Eng Lang Development IV S1 (LA925)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: The focus of this course is on the enhancement of students' listening, speaking, reading, and writing skills in English through the study of both narrative and informational written and oral text. Students in this course are primarily Intermediate Level students. This course receives English credit. There is a concurrent enrollment in an English class. It is the first semester of a yearlong course.

Eng Lang Development IV S2 (LA926)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: The focus of this course is on the enhancement of students' listening, speaking, reading, and writing skills in English through the study of both narrative and informational written and oral text. Students in this course are primarily Intermediate Level students. This course receives English credit. There is a concurrent enrollment in an English class. It is the second semester of a yearlong course.

Eng Lang Development V S1 (LA927)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: In this course students are independently applying strategies to expand their academic reading, writing, listening and speaking skills. Students in this course are primarily Early Advanced students. This course receives English credit. This is a concurrent enrollment in an English class. It is the first semester of a yearlong course.

Eng Lang Development V S2 (LA928)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: In this course students are independently applying strategies to expand their academic reading, writing, listening and speaking skills. Students in this course are primarily Early Advanced students. This course receives English credit. This is a concurrent enrollment in an English class. It is the second semester of a yearlong course.

ELA Foundations I S1 (LA911)

PREREQUISITE: NONE | Offered: Fall | 1 Credit (Meets one block every day)

Description: This course focuses on integrating reading skills, writing skills, and vocabulary building from study of narrative and informational oral or written text. This course includes teaching of foundational reading and writing skills. Students in this course are primarily Beginning Level students. This course receives English credit. Enrollment is concurrent with ELD I. It is semester one of a yearlong course.

ELA Foundations I S2 (LA912)

PREREQUISITE: NONE | Offered: Spring | 1 Credit (Meets one block every day)

Description: This course focuses on integrating reading skills, writing skills, and vocabulary building from study of narrative and informational oral or written text. This course includes teaching of foundational reading and writing skills. Students in this course are primarily Beginning Level students. This course receives English credit. Enrollment is concurrent with ELD I. It is semester two of a yearlong course.

ELA Foundations II S1 (LA913)

PREREQUISITE: NONE | Offered: Fall | 1 Credit (Meets one block every day)

Description: This course focuses on consolidating many of the beginning skills through extended practice and instruction as students gain the new skills that are presented at this level. Instruction emphasizes interpersonal communication and academic skills. Students in this course are primarily Beginning Level students. This course receives English credit. This is concurrent enrollment in ELD II. It is semester one of a yearlong course.

ELA Foundations II S2 (LA914)

PREREQUISITE: NONE | Offered: Spring | 1 Credit (Meets one block every day)

Description: This course focuses on consolidating many of the beginning skills through extended practice and instruction as students gain the new skills that are presented at this level. Instruction emphasizes interpersonal communication and academic skills. Students in this course are primarily Beginning Level students. This course receives English credit. This is concurrent enrollment in ELD II. It is semester two of a yearlong course.

ELL Intensive Foundations S1 (MIS920)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: This course is for Beginning level students that audited semester one of ELA Foundations I or Eng Lang Development I course. Beginning level students that enroll second semester should also take this course. The focus of this course is to fill in the topics that were missed in the ELA Foundations I and Eng Lang Development I classes.

ELL SCI Foundations (AD) S1 (MIS941)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: The focus of this course is language development through the exploration of science concepts and skills. It will offer a balanced science experience by engaging students in the practice of science and help them develop their understanding of scientific phenomena and the natural world. This course is designed for newly arrived English Language Learners. It is semester one of a yearlong course.

ELL SCI Foundations (AD) S2 (MIS9412)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: The focus of this course is language development through the exploration of science concepts and skills. It will offer a balanced science experience by engaging students in the practice of science and help them develop their understanding of scientific phenomena and the natural world. This course is designed for newly arrived English Language Learners. It is semester two of a yearlong course.

ELL Eng I S1 (LA929)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: This is an ELL Sheltered English course. English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing and character analysis.

ELL Eng I S2 (LA930)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: This is an ELL Sheltered English course. English I develops basic structures of reading and writing, using a variety of works from diverse authors to increase student interest, awareness, appreciation, and understanding of a variety of genre as well as opportunities to apply the writing process to promote communication through written expression. Students will come to understand that personal expression and the way we express ourselves is influenced by society and culture through literary analysis, reflective writing, persuasive writing and character analysis.

ELL Eng II S1 (LA931)

PREREQUISITE: NONE | Offered: Fall | .5 Credit

Description: This is an ELL Sheltered English course. English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication.

ELL Eng II S2 (LA932)

PREREQUISITE: NONE | Offered: Spring | .5 Credit

Description: This is an ELL Sheltered English course English II continues the development of the structures of communication with an emphasis on the language arts of speaking and listening. Through the communication of ideas in both writing and speaking, students will learn to use information responsibly, accurately, and ethically. Students will communicate through a variety of mediums, including technology, to recognize the role evaluation and response have on oral communication.

English Language Development Course Name Changes

CURRENT ELL COURSE NUMBERS	CURRENT ELL COURSE NAMES	NEW COURSE NUMBERS	NEW COURSE NAMES
IEL ELL I MIS915	IEL ELL I S I	LA 911	ELA Foundations I S1 (1.0 cr) (meets every day)
LA941	ELL WRITING I S I		(will replace MIS915 and LA941)
IEL ELL I MIS916	IEL ELL I S 2	LA 912	ELA Foundations I S2 (1.0 cr) (meets every day)
LA942	ELL WRITING I S II		(will replace MIS916 and LA942)
IEL ELL II MIS917	IEL ELL II S I	LA 913	ELA Foundations II S1 (1.0 cr) (meets every day)
LA943	ELL WRITING II S I		(will replace MIS917 and LA943)
IEL ELL II MIS918	IEL ELL II S 2	LA 914	ELA Foundations II S2 (1.0 cr) (meets every day)
LA944	ELL WRITING II S II		(will replace MIS918 and LA944)
MIS921	ELL I S1	MIS921	Eng Lang Development I S1
MIS922	ELL I S2	MIS922	Eng Lang Development I S2
MIS933	ELL I ADV S1	MIS933	Eng Lang Development II S1
MIS934	ELL I ADV S2	MIS934	Eng Lang Development II S2
LA923	ELL II S1	LA923	Eng Lang Development III S1
LA924	ELL II S2	LA924	Eng Lang Development III S2
LA925	ELL III S1	LA925	Eng Lang Development IV S1
LA926	ELL III S2	LA926	Eng Lang Development IV S2
LA 927	ELL IV S1	LA927	Eng Lang Development V S1
LA 928	ELL IV S2	LA928	Eng Lang Development V S2

New Course	GI semester 2 course	MIS920	ELL Intensive Foundations
SCI939	ELL Science I S1	MIS941	ELL SCI Foundations (AD) S1
SCI940	ELL Science I S2	MIS942	ELL SCI Foundations (AD) S2
SCI941 (no change)			
SCI942 (no change)			

Process for waiving ELL services

1. Upon parents' decision to waive the LIEP service for their child (children), they are asked to sign and date the *"Request for the English Language Development Program Withdrawal/Denial of Enrollment"* form. This document is kept in the ELL Portfolio.
2. In the event that parents choose to waive their child's participation in the district ELL program, the student's academic progress will continue to be monitored. The student will also be included in the annual language proficiency assessments and reporting.
3. When parents decide to withdraw their child (children) from the current LIEP (applicable for current ELL), ELL teacher will send the "Withdrawal/ Denial Services" form home for parents to sign and date. The signed and dated form will be kept in the student's ELL portfolio.

Diploma Information

DMPS vs. Home High School Diploma

Students must be enrolled and earn credit in a minimum of four academic courses and in attendance at a given high school in order to qualify for a diploma from that high school. If the student attends a DMPS governed alternative setting/program and is enrolled within the district, the student may also qualify for a home high school diploma if he/she has at least 50 percent of their required (23) credits earned from the home high school. Principal and administrative team discretion may be necessary in certain circumstances.

Students transferred to Des Moines from other school systems must be enrolled and complete one full semester's work in Des Moines Public Schools and meet the local requirements for graduation before receiving a Des Moines high school diploma. A semester's work is defined as four subjects, which give two units of credit.

When students return to Des Moines schools from international exchange experiences, they should submit grade cards, transcripts, and other explanatory materials from the host schools to the registrar at the appropriate high school. An evaluation will be made of the courses taken. The appropriate credit will then be placed on the student's transcripts.

Considerations for Early Graduation

Students eligible for early graduation have some important things to consider as they choose a January or May diploma date. The date on the diploma can affect federal funding, college scholarship eligibility, child support, and social security. Students and their families should use the following information to make a choice that is right for them and their particular situation.

If a student chooses to graduate in January, they are permitted to participate in May with the rest of their graduating class, as DMPS does not currently hold a January commencement program. These students will then have a diploma dated with a January graduation date and are not allowed to attend school or required to take additional classes during the second semester. The diploma will also be held until May.

If a student meets graduation requirements at the close of S1, they may continue S2 and graduate in May with the rest of their graduating class. These students will then have a diploma with a May graduation date. It is highly suggested that these students take a minimum of 4 classes/2.0 credits during S2 so they are considered full time and eligible to receive federal funding, qualify for child support, social security, and scholarships from colleges.

Please note: it is not a requirement for the student to take 4 classes/2.0 credits their final semester in order to walk in the May graduation ceremony. A student is only required to take 4.0 classes/2.0 credits when they transfer to DMPS their final semester of school in order to qualify to receive that building's diploma. If the student transfers to DMPS from another district and does not choose to take the minimum 4 classes/2.0 credits, then the home high school registrar will get in touch with the district registrar and a general DMPS diploma will be issued instead.

Educational Equity Statement

The Des Moines Independent Community School District does not discriminate on the basis of race, color, national origin, gender, disability, religion, creed, age (for employment), marital status (for programs), sexual orientation, gender identity and socioeconomic status (for programs) in its educational programs and its employment practices.

The Des Moines Independent Community School District offers career and technical programs in the following service areas:

Agriculture, Food, & Natural Resources; Arts, Communication, & Information Systems; Applied Sciences, Technology, Engineering, & Manufacturing; Health Sciences; Human Services; and Business, Finance, Marketing, & Management. Career & Technical Education courses delivered at home high schools have no admissions requirements beyond the prerequisites listed with the course description. Central Campus is open to all qualifying high school students regardless of home district. Criteria for enrollment in Central Campus programming with requests exceeding capacity is as follows: the student expresses strong interest in a career path, is credited as a junior or senior (does not apply to courses designed for sophomores or three-year programs), has met prerequisites at their home high school, is on track to graduate, has a strong attendance record, demonstrates strong citizenship skills, and enrollment would increase opportunities for underserved populations. No one indicator is a deciding factor in enrollment. Students not meeting these criteria may work with their counselor and school administrator to seek an exception

There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the District Equity Coordinator, 2323 Grand Ave, Des Moines, IA 50312; phone: 515-242-7662. Complaints can also be directed to the Iowa Civil Rights Commission, 400 E. 14th Street, Des Moines, IA50319-1004, (515) 281-4121, or Region VII Office for Civil Rights, Citigroup Center 500 W. Madison Street, Suite 1475 Chicago, IL 6066