



HIGH SCHOOL

Course Descriptions 2017-2018

HIGH SCHOOL

MISD

MISD Disclaimer:

The contents of the Secondary School Information Guide are relevant to MISD Policy (LEGAL AND LOCAL), Regulation and Practice as of January 2016. For current information regarding district policy please refer to the Mullin Independent School District website at <http://pol.tasb.org/Home/Index/896/> or visit with your school counselor.

Specific school-related questions should be directed to campus staff. When a parent or guardian has a question or concern, he or she should contact the person who made the initial decision. After discussing the matter, if the concern continues, the principal should be contacted.

Table of Contents

Core Required Courses

English Language Arts	3
Mathematics	4
Science	5
Social Studies and Economics.....	6
Physical Education	7
Fine Arts	7
Languages other than English	8

Career and Technical Courses

Agriculture, Food and Natural Resources	10
Architecture and Construction.....	11
Arts, Audio/Video Technology and Communication.....	11
Education and Training	11
Hospitality and Tourism	12
Human Services	12
Career Development	12

Graduation Plans

Students Entering 9 th grade in 2013-2014 or before.....	13
Foundation Graduation Plans (entering 9th 2014-2015 or after)	14

HIGH SCHOOL COURSE DESCRIPTIONS

English Language Arts

ENGLISH I

GRADE 9 CREDIT:1

RECOMMENDED: *Official promotion to or placement in high school* English I students study the author's craft of literary and informational genres, compare genres, and use analysis of texts to improve their own writing. English I integrates the use of increasingly sophisticated language skills within the writing process. Students produce a variety of compositions using technology to aid revising, editing, publishing, and research. Students create and deliver oral presentations that include the use of visual representations.

ENGLISH II

GRADE: 10 CREDIT:1

RECOMMENDED: English I

English II emphasizes reading and writing across all genres. Students use the writing process to produce effective arguments that include information from primary and secondary sources. Communication will demonstrate complex syntax, advanced vocabulary, and increasingly accurate use of the conventions of written language. Students will read widely and critically, analyzing and responding to a variety of literature including American and world authors. They will present and critique oral communications including media literacy and analyze the purpose and the effect on the audience.

ENGLISH III

GRADE: 11 CREDIT: 1

RECOMMENDED: English II

English III involves an intensive study of advanced usage and vocabulary. The course will draw on American literature including literary texts, informational texts, and literary essays. Students write analytical essays, including a documented research project, using technology to aid in revision, editing, and publishing compositions. Students will present and critique oral communications and multimedia products.

ENGLISH IV

GRADE: 12 CREDIT: 1

RECOMMENDED: English III

English IV emphasizes persuasive and literary discourse, which demonstrates sophisticated syntax and vocabulary. Students write essays, resumes, analysis of media and literature, and conduct research with increasingly rigorous products. Students use technology to aid in revision, editing, publishing, and research. They read widely from a variety of genres in British and world literature, analyzing literary forms and interpreting the influence of history. Students present and critique oral communications that include visuals and other media.

ENGL1301 – Composition I

GRADE: 11 OR 12

CREDIT: 3 Semester hours

REQUIRED: English II, TSI Reading score of 351

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Dual Credit through Ranger College

ENGLISH 1302 – Composition II

GRADE 11 OR 12 CREDIT: 3 Semester Hours

REQUIRED: ENGL1301

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Dual credit through Ranger College.

HIGH SCHOOL COURSE DESCRIPTIONS

ENGL 2322 - British Literature I

GRADE 12 CREDIT: 3 Semester Hours
 REQUIRED : ENGL 1302

A survey of the development of British literature from the Anglo- Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Dual credit through Ranger College.

ENGL 2323 - British Literature II

GRADE: 12 CREDIT: 3 Semester Hours
 REQUIRED: ENGL 2322

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Mathematics

ALGEBRA I

GRADE: 9-12 CREDIT: 1

PREREQUISITE: Mathematics, Grade 8 or its equivalent. In high school Algebra I, students deepen their understanding of relations and functions and expand their repertoire of familiar functions. Students use technological tools to represent and study the behavior of linear and beginning quadratic functions, among others. They learn to combine functions, express them in equivalent forms, compose them, and find inverses where possible. Algebra I also provides students with insights through the content strands of linear functions, equations, and inequalities, quadratic functions and equations, exponential functions and equations, and number and algebraic methods.

GEOMETRY

GRADE: 9-12 CREDIT: 1

PREREQUISITE: Algebra I
 High school students should develop facility with a

broad range of ways of representing geometric Ideas—including coordinates, networks, transformations—that allow multiple approaches to geometric problems and that connect geometric interpretations to other contexts. Students should recognize connections among different representations, thus enabling them to use these representations flexibly. Students will expand their understanding through other mathematical experiences through the Geometry content strands of Geometric Structure, Patterns, Dimensionality and Geometry of Location, Congruence and the Geometry of Size, and Similarity and the Geometry of Shape.

ALGEBRA II

GRADE: 9-12 CREDIT: 1

PREREQUISITE: Algebra I.

In Algebra II, students have opportunities to build on Algebra I and Geometry experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Students use technological tools to represent and study the behavior of polynomial, exponential, rational, and periodic functions, among others. They learn to combine functions, express them in equivalent forms, compose them, and find inverses where possible. As they do so, they come to understand the concept of a class of functions and learn to recognize the characteristics of various classes.

MATH MODELING WITH APPLICATIONS

GRADE: 9-12 CREDIT: 1

PREREQUISITE: Algebra I. This course must be completed before receiving credit for Algebra II. This course is intended to reinforce, broaden, and extend the mathematical knowledge and skills acquired in Algebra I in order to stretch their knowledge toward topics studied in Geometry and Algebra II. The primary purpose of this course is to use mathematics as a tool to model real-world phenomena in science, finance, music, and art.

HIGH SCHOOL COURSE DESCRIPTIONS

PRECALCULUS

GRADE: 12 **CREDIT: 1**

PREREQUISITES: Algebra I, Geometry, and Algebra II. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

MATH 1314 - College Algebra

GRADE: 12 **CREDIT: 3 Semester Hours**

PREREQUISITE: two years of high school algebra TSI math score of 350
Study of Quadratics; polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; conic sections; and matrices and determinants. Dual Credit through Ranger College.

MATH 1342 - Elementary Statistical Methods

GRADE: 12 **CREDIT: 3 Semester Hours**

Presentation and interpretation of data, probability, sampling, correlation and regression, analysis of variance, and the use of statistical software. Dual Credit through Ranger College.

Science

BIOLOGY

GRADE: 9-11 **CREDIT: 1**

Students use scientific methods and critical thinking to study a variety of biology concepts. Topics include cell structure and function, genetics, evolutionary theory, biological processes and systems, and environmental systems. Texas law requires at least 40% lab and field work.

CHEMISTRY

GRADE: 10-12 **CREDIT: 1**

PREREQUISITE: One unit of high school science and Algebra I.
RECOMMENDED: Completion of or concurrent enrollment in a second credit of mathematics. Students use scientific methods and critical thinking to study a variety of chemistry concepts. Topics include matter, the Periodic Table, atomic structure, chemical bonding and reactions, thermochemistry, and solution chemistry. Texas law requires at least 40% lab and field work.

PHYSICS

GRADE: 9-12 **CREDIT: 1**

RECOMMENDED: Algebra I or concurrent enrollment in Algebra I. Students use scientific methods and critical thinking to study a variety of physics concepts. Topics include the study of force and motion, types of forces, momentum and energy, and waves and quantum phenomena. Texas law requires at least 40% lab and field work.

ANATOMY AND PHYSIOLOGY

GRADE: 10 **CREDIT: 1**

RECOMMENDED: Three credits of science
In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Texas law requires 40% laboratory and fieldwork.

HIGH SCHOOL COURSE DESCRIPTIONS

BIOL 2401 - Anatomy and Physiology I

GRADE: 12 CREDIT: 4 Semester Hours

REQUIRED: TSI Reading score of 351

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. Dual Credit through Ranger College

BIOL 2402 - Anatomy and Physiology II

GRADE: 12 CREDIT: 4 Semester Hours

PREREQUISITE: BIOL 2401

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized. Dual Credit through Ranger College.

Social Studies and Economics

WORLD GEOGRAPHY

GRADE: 9 CREDIT: 1

World Geography Studies focuses on the relationships among people, places, and environments that result in patterns on the Earth's surface. Students use the tools And methods of geography to study the principal regions in the world—the Americas; Europe and Eurasia; North Africa and the Middle East; Sub-Saharan Africa; Asia, Australia and Antarctica.

WORLD HISTORY STUDIES

GRADE: 10 CREDIT: 1

World History Studies focuses on the development of human society from prehistoric to modern times. Emphasis is placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. The course employs an interdisciplinary approach to deepen students' understanding of the world's people, today and in the past.

UNITED STATES HISTORY

GRADE: 11 CREDIT: 1

RECOMMENDED: World Geography and/or World History

This course focuses on U.S. history from Reconstruction to the present. Students analyze major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. The course uses an interdisciplinary approach to deepen students' understanding of the people and issues that have shaped the United States today.

UNITED STATES GOVERNMENT

GRADE: 12 CREDIT: .5

RECOMMENDED: U.S. History Studies

Government focuses on structures of power and authority in American society. Students study the U.S. Constitution; the roles and responsibilities of the state and national governments; the influence of political parties and other participants in the political system; and the rights and responsibilities of citizens. Through discussions of current issues, students examine the impact of government policies on the lives of U.S. citizens.

HIGH SCHOOL COURSE DESCRIPTIONS

ECONOMICS

GRADE: 12 **CREDIT: .5**

RECOMMENDED: U.S. History Studies

Economics focuses on the production, distribution, and consumption of goods and services in the U.S. The course emphasizes fundamental principles of market economics, and students learn how markets and prices allocate scarce resources. Students study consumer behavior, the roles of business and government in the economy, the banking system, international trade, and other topics. Through discussions of current economic issues, students deepen their understanding of the U.S. economy.

GOVT 2305 - Federal Government

GRADE: 12 **CREDIT: 3 Semester Hours**

A study of the federal constitution; the organization and administration of the federal system; political participation by the individual, and the principles which underlie American democracy. Dual Credit through Ranger College.

ECON 2301 - Principles of Macroeconomics

GRADE: 12 **CREDIT: 3 Semester Hours**

History, development, and application of macroeconomic theory underlying the production, distribution, and exchange of goods and services including the utilization of resources, analysis of value and prices, national income analysis, fiscal policies, monetary and banking theory and policy, distribution of income, labor problems, international economics, and economics systems. Attention given to the application of economic principles to economic problems. Dual Credit through Ranger College.

Physical Education

GENERAL PHYSICAL EDUCATION COURSES

IMPORTANT:

- One (1.0) credit of physical education s required

to meet State graduation requirements.

- General Physical Education courses must only be taken once. Students may be exempt from physical activity (EHAA LEGAL), but not their physical education class.
- Documentation from a member of the healing arts licensed to practice in Texas must be provided to exempt a student from various types of physical activities. Forms maybe obtained from district administration.
- Additional PE credits may be taken for state elective credit. A maximum of 4 PE credits may be earned through any combination of general PE or PE substitutions
- All students enrolled in a PE course or PE substitution must be assessed on their physical fitness based on their Physical Education Classification using the FITNESSGRAM Assessment.

Fine Arts

ART I

GRADE: 9-12 **CREDIT: 1**

This course lays the basic foundation for learning art processes, procedures, theories, history, and art judgment. The approach is experimental in use of materials (drawing, painting, printmaking, fibers, ceramics, sculpture, jewelry, photography) but structured to provide students a strong foundation in design, drawing, and vocabulary.

ART II

GRADE: 10-12 **CREDIT: 1**

PREREQUISITE: Art I

Students explore design elements and principles through composition, abstraction, and expression. They also study contour gesture and other techniques, with emphasis on representation of volume. They explore use of

HIGH SCHOOL COURSE DESCRIPTIONS

papers, cardboards, and fabric in combination with charcoal, pastels, pen and ink, brushes, felt tips, and mixed media.

ART III

GRADE: 11-12 CREDIT: 1

PREREQUISITE: ART II

Students use art elements and principles to develop skills and sensitivity in a variety of methods and techniques. They increase awareness of composition with abstract, non-objective, and realistic renderings. Students will use many drawing materials and tools with emphasis on perfecting individual approaches to drawing. Students also will explore commercial art.

ART IV

GRADE: 11-12 CREDIT: 1

PREREQUISITE: ART III

Students develop a portfolio addressing a very broad interpretation of drawing issues and media. Light, shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth can be addressed. Abstract, observational, and inventive works through a variety of means, which could include painting, printmaking, mixed media, etc. may be used. Work will be divided into three sections of the portfolio including quality, concentration, and breadth.

ART 1301 - Art Appreciation

GRADE: 9-12 CREDIT: 3 Semester Hours

Exploration of purposes and processes in the visual arts including evaluation of selected works. Dual Credit through Ranger College

MUSI 1306 - Music Appreciation

GRADE: 9-12 CREDIT: 3 Semester Hours

Understanding music through the study of cultural periods, major composers, and musical elements; illustrated with audio recording and/or live performance. Dual Credit through Ranger College.

Languages Other than English

Spanish I

GRADE: 9-12 CREDIT: 1

Spanish I offers sequential language instruction in the integrated skills of speaking, listening, reading and writing. Strong focus is also placed on developing the three modes of communication: interpretive, interpersonal and presentational, with both the teacher and student using the language as much as is possible at this stage of language learning. Students also develop appropriate grammatical concepts and learn about the products, practices and perspectives of the people who speak the target language. Students of classical languages use the skills of listening, speaking, and writing to reinforce the skill of reading

SPANISH II

GRADE: 9-12 CREDIT: 1

PREREQUISITE: Spanish I or appropriate Credit by Exam (CBE) or district-approved placement test.

Spanish II continues sequential language instruction in the integrated skills of speaking, listening, reading and writing. Strong focus is still placed on developing the three modes of interpretive, interpersonal and presentational, with both the teacher and student using the language as much as is possible at this second stage of language learning. The course reviews and refines appropriate grammatical concepts while students increase their cultural knowledge and understanding of the products, practices and perspectives. Students of classical languages use the skills of listening, speaking, and writing to reinforce the skill of reading.



HIGH SCHOOL

Career and Technical Education (CTE)

Course Descriptions

MISD

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Career and Technical Education Course Descriptions

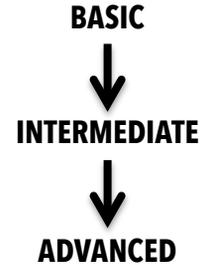
The Achieve Texas College and Career Initiative centers on establishing career clusters in schools as a strategy for improving high school completion rates and college and workforce readiness. It is based on the belief that the curricula of the 21st century should combine rigorous academics with relevant career education that incorporates the College Readiness Standards, personalized learning environments, academic and social support, relevant teaching and learning designed to promote postsecondary success, and effective educators and leaders.

Career clusters are a way of reorganizing learning around programs of study that will prepare students for an even more competitive global economy. Texas has adopted the U.S. Department of Education's Career Clusters System. The 16 broad career clusters and multiple programs of study support the Governor's Industry Cluster Initiative, which identifies high-growth/high-paying jobs for the 21st-century Texas economy. AchieveTexas offers guidance to help students plan their educational experience based on their career goals and allows students to develop the knowledge and skills necessary for a successful transition into skilled employment, advanced training, an associate's degree, a bachelor's degree, or technical certification. Career programs of study represent a recommended sequence of courses based on a student's personal interests and career goals. The idea is to connect what students learn in school every day to what they aspire to do tomorrow, thus increasing engagement with school and motivation to achieve.

Career and Technical Education (CTE) Cluster Areas

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, AV Technology and Communications
- Education and Training
- Health Science
- Hospitality and Tourism
- Human Services
- Manufacturing
- Career Development

Students take the courses included in a program of study in a coherent sequence to maximize the effectiveness of the learning. Course sequences have been developed by each campus.



- Business & Industry
- Public Service
- Arts & Humanities

Agriculture, Food, and Natural Resources Cluster

The Agriculture, Food, and Natural Resources Career Cluster focuses on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources. The FFA student organization contributes to the advancement of leadership, citizenship, personal growth, and academic and technological skills.

PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES

GRADE: 9-12 CREDIT: 1

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Career and Technical Education Course Descriptions

PROFESSIONAL STANDARDS IN AGRIBUSINESS B

GRADE: 10-12 CREDIT: .5

Professional Standards in Agribusiness primarily focuses on leadership, communication, employer- employee relations, and problem solving as they relate to agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

AGRIBUSINESS MANAGEMENT AND MARKETING

GRADE: 10-12 CREDIT: 1

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

EQUINE SCIENCE

GRADE: 10-12 CREDIT: .5

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance

academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

SMALL ANIMAL MANAGEMENT

GRADES: 10-12 CREDIT: .5

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES

GRADE: 10-12 CREDIT: 1

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. Attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations

Career and Technical Education Course Descriptions

AGRICULTURAL EQUIPMENT DESIGN AND FABRICATION

GRADE: 11-12 CREDIT: 1

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication.

Arts, Audio/ Video Technology and Communications Cluster

This cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

PRINCIPLES OF ARTS, A/V TECHNOLOGY AND COMMUNICATIONS

GRADES: 9-10 CREDIT: 1

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

FASHION DESIGN I

GRADES: 10-12 CREDIT: 1

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.

Architecture and Construction Cluster

This cluster focuses on designing, planning, managing, building, and maintaining the built environment.

CONSTRUCTION MANAGEMENT I

GRADES: 10-12 CREDIT: 2

In Construction Management I, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management I includes the knowledge of design techniques and tools related to the management of architectural and engineering projects.

CONSTRUCTION MANAGEMENT II

GRADES: 10-12 CREDIT: 2

In Construction Management II, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management II includes knowledge of the design, techniques, and tools related to the management of architectural and engineering projects.

Education and Training Cluster

The cluster focuses on planning, managing, and providing education and training services and related learning support services.

Career and Technical Education Course Descriptions

HUMAN GROWTH AND DEVELOPMENT

GRADE: 10-12 CREDIT: 1

Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

INSTRUCTIONAL PRACTICES

GRADES: 9-10 CREDIT: 2

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

PRACTICUM IN EDUCATION AND TRAINING

GRADES: 12 CREDIT: 2

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school- aged students

Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Health Science Cluster

This cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development.

MEDICAL TERMINOLOGY

GRADES: 9-12 CREDIT: 2

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. This is taught as a Dual Credit Course.

Hospitality and Tourism Cluster

This cluster focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel- related services.

INTRODUCTION TO CULINARY ARTS

GRADES: 9-10 CREDIT: 1

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

Career and Technical Education Course Descriptions

CULINARY ARTS

GRADE: 10-12 CREDIT: 2

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

ADVANCED CULINARY ARTS

GRADES: 10-12 CREDIT: 2

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

Manufacturing Cluster

The cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

INTRODUCTION TO WELDING

GRADES: 9-12 CREDIT: 1

Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and

apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

WELDING I

GRADES: 10-12 CREDIT: 2

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success. This is taught as a dual credit course through Ranger College.

WELDING II

GRADES: 9-10 CREDIT: 2

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

WELDING LAB II

GRADES: 11-12 CREDIT: 1

Welding II Lab provides an introduction with an emphasis on basic welding laboratory principles and operating procedures. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and

Career and Technical Education Course Descriptions

introduction to welding codes and standards. This course provides knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Human Services Cluster

This Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

PRINCIPLES OF HUMAN SERVICES

GRADES: 9-12 **CREDIT: 1**

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services high-demand human services careers.

DOLLARS AND SENSE

GRADES: 11-12 **CREDIT: .5**

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers.

INTERPERSONAL STUDIES

GRADES: 9-12 **CREDIT: .5**

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

GRADES: 9-12 **CREDIT: 1**

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

COUNSELING AND MENTAL HEALTH

GRADES: 11-12 **CREDIT: 1**

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Career Development

PROJECT BASED RESEARCH

GRADES: 11-12 **CREDIT: 1**

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

CAREER PREPARATION

GRADES: 11-12 **CREDIT: 2**

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

MISD Graduation Plans and EOC requirements for Students

HIGH SCHOOL

E	ENGLISH:	Sem A	Sem B
	<i>English 1</i>		
	<i>English 2</i>		
	<i>English 3</i>		
	<i>Advanced English</i>		
E	MATH:	Sem A	Sem B
	<i>Algebra 1</i>		
	<i>Geometry</i>		
	<i>Algebra 2* or 3rd Adv. Math:</i>		
	<i>4th Math:</i>		
Speech Requirement Met by: _____ Year: _____			
E	LOTE:	Sem A	Sem B
	1.		
	2.		
	LOTE Committee decision (if used)		
Note: List substitute course, if used: (indicate with *)			
Singles		Sem A	Sem B
<i>PE (1)</i> _____			
<i>Fine Arts (1):</i> _____			
Performance Acknowledgements (1 of the following):			✓
OP in a dual credit course			
OP in bilingualism/biliteracy			
OP on AP Test			
OP on PSAT, SAT, or ACT			
Earning a nationally or internationally recognized business or industry certification or license			
Foundation Credits:			
Endorsement Credits:			
Total			
Distinguished Level of Achievement: _____			

E	SCIENCE:	Sem A	Sem B
	<i>Biology</i>		
	<i>2nd Science:</i>		
	<i>3rd Science:</i>		
	<i>4th Science:</i>		
E	Social Studies:	Sem A	Sem B
	<i>World Geography</i>		
	<i>World History</i>		
	<i>US History</i>		
	<i>Government</i>		
	<i>Economics</i>		

E	Electives - 5 credits	Sem A	Sem B
	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		

STAAR/EOC Information

EOC	Score
English I	
English II	
Biology	
US History	
Algebra	

MISD Graduation Plans and EOC requirements for Students, cont.

Business & Industry Endorsement	STEM Endorsement	Arts & Humanities Endorsement	Public Service Endorsement	Multi-disciplinary Endorsement
<p>HOSPITALITY Pathway</p> <input type="checkbox"/> Principles of Human Services <input type="checkbox"/> Lifetime, Nutrition & Wellness <input type="checkbox"/> Culinary Arts <input type="checkbox"/> Advanced Culinary Arts <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p>CONSTRUCTION Pathway</p> <input type="checkbox"/> Principles of Ag. <input type="checkbox"/> Construction Mgmt <input type="checkbox"/> Advanced Const. Mgmt. <input type="checkbox"/> Practicum in Const. Mgmt or Project Based Research <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p>WELDING Pathway</p> <input type="checkbox"/> Principles of Ag. <input type="checkbox"/> Intro to Welding (10) <input type="checkbox"/> Welding I <input type="checkbox"/> Welding II and Lab <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p>FARM MANAGER Pathway</p> <input type="checkbox"/> Principles of Ag (9) <input type="checkbox"/> Prof. standards in Agribusiness <input type="checkbox"/> Ag Management <input type="checkbox"/> Equine Science <input type="checkbox"/> Project Based Research or <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p>VETERINARIAN</p> <input type="checkbox"/> Principles of Ag. <input type="checkbox"/> Livestock Production <input type="checkbox"/> Medical Terminology <input type="checkbox"/> Project Based Research <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology	<p>STEM – MATH Pathway I</p> <input type="checkbox"/> Algebra I <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II <input type="checkbox"/> College Algebra MATH 1314 <input type="checkbox"/> Statistics MATH 1342 <p>STEM – MATH Pathway II</p> <input type="checkbox"/> Algebra I <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II <input type="checkbox"/> Pre-Cal <input type="checkbox"/> College Algebra MATH 1314 <p>STEM – SCIENCE Pathway I</p> <input type="checkbox"/> Biology <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics <input type="checkbox"/> DC BIOL 1406/1407 Scientific Research & Design <input type="checkbox"/> DC BIOL 2402/2402 Anatomy and Physiology <p>STEM – SCIENCE Pathway II</p> <input type="checkbox"/> Biology <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics <input type="checkbox"/> Earth & Space Science <input type="checkbox"/> DC BIOL 2402/2402 Anatomy Physiology	<p>FINE ARTS Pathway</p> <input type="checkbox"/> Art 1 <input type="checkbox"/> Art 2 <input type="checkbox"/> Art 3 <input type="checkbox"/> Art 4 <input type="checkbox"/> College Alg. or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <div data-bbox="615 610 825 991" style="background-color: #cccccc; padding: 10px; text-align: center;"> <p>Certifications</p> <hr/><hr/><hr/><hr/><hr/><hr/><hr/><hr/> </div>	<p>EDUCATION Pathway</p> <input type="checkbox"/> Principles of Human Services <input type="checkbox"/> Human Growth &Dev. <input type="checkbox"/> Instructional Practices <input type="checkbox"/> Practicum in Educ.&Training <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p>COUNSELING Pathway</p> <input type="checkbox"/> Principles of Human Services <input type="checkbox"/> Human Growth &Dev. <input type="checkbox"/> Counseling & Men. Health <input type="checkbox"/> Project Based Research <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p>HEALTH SCIENCE Pathway</p> <input type="checkbox"/> Principles of Human Services <input type="checkbox"/> Human Growth &Dev. <input type="checkbox"/> Medical Term. (DC) <input type="checkbox"/> Project Based Research (CNA) <input type="checkbox"/> College Algebra or Pre-Cal <input type="checkbox"/> Anatomy & Physiology	<p>DUAL CREDIT Pathway</p> <input type="checkbox"/> Physics <input type="checkbox"/> College Alg or Pre-Cal <input type="checkbox"/> Anatomy & Physiology <p> <input type="checkbox"/> Dual Credit 1 <input type="checkbox"/> Dual Credit 2 <input type="checkbox"/> Dual Credit 3 <input type="checkbox"/> Dual Credit 4 <input type="checkbox"/> Dual Credit 5 <input type="checkbox"/> Dual Credit 6 <input type="checkbox"/> Dual Credit 7 <input type="checkbox"/> Dual Credit 8 <ul style="list-style-type: none"> • 4 Credits but 8 classes because most DC courses are .5 HS Credits </p> <div data-bbox="1153 726 1353 1107" style="background-color: #cccccc; padding: 10px; text-align: center;"> <p>Other Courses</p> <hr/><hr/><hr/><hr/><hr/><hr/><hr/><hr/> </div>