

Career Center Course Guide 23/24 School Year

Key

F=Fall Semester

S=Spring Semester

FY=Full Year Course

(9/10/11/12)=Grade

course is available

* =Dual Credit Course

Academic classes

Math

Algebra 1 **FY**

Geometry **FY**

Technical Geometry/Geo. in Construction-2Hr Block **FY**

Honors Geometry **FY**

Algebra 2 **FY**

Pre-Calculus **FY**

*College Technical Math **F/S** (M111)-Geared towards an associates degree or certification, not bachelor's degrees

*College Extended Technical Math **F/S** (M114)-Geared towards an associates degree or certification, not bachelor's degrees

*College Algebra **F/S** (M121)-Geared towards bachelor's degrees

*College Introduction to Statistics **F/S** (M216)-Geared towards bachelor's degrees

English

English 1 **FY**

Honors English 1 **FY**

English 2 **FY**

Honors English 2 **FY**

English 3 **FY**

AP English Language **FY**

English 4 **FY**

*English 4/Tech Writing **FY** (W121-College Technical Writing)-Geared towards an associates degree or certification, not bachelor's degrees

*College Writing/English 4 **FY** (W101)-Geared towards bachelor's degrees

*College Intro to Public Speaking **F/S** (COMX 111)-Geared towards all college degrees-Elective High School credit-does not count towards High School English requirements

Social Studies

World History **FY**

U.S. History **FY**

Psychology **F/S**

U.S. Government **F/S**

*College American Government **F/S** (PSCI 210)-Geared towards all college degrees

*College American History 1 **F** (HSTA 101)-Geared towards all college degrees

*College American History 2 **S** (HSTA 102)-Geared towards all college degrees

Science

Biology **FY**

Honors Biology **FY**

Physics 1 **FY**

CTE Courses

Agriculture

Introduction to Agriculture, Food, and Natural Resources **FY** (9/10/11/12)

Principles of Plant Science **FY** (11/12)-*Sophomores permitted with Intro to Ag prerequisite*

Principles of Animal Science **FY** (11/12)-*Sophomores permitted with Intro to Ag prerequisite*

Urban Agriculture **F/S or FY** (11/12)-2Hr Block Schedule

Automotive

Automotive Fundamentals **F/S** (10/11/12)

Automotive Engines 1 **F/S** (10/11/12)

Automotive Powertrain **F/S** (11/12)

Automotive Electrical **F/S** (11/12)

Automotive Chassis **F/S** (11/12) -2Hr Block Schedule (*Successful completion of Automotive Engines 1 or Automotive Fundamentals is required for enrollment*)

Automotive Engines 2 **F/S** (12) - 2Hr Block Schedule (*Successful completion of Automotive Engines 1 is required for enrollment*)

*College Automotive Brakes with Lab (AST 114/115) **F/S** (11/12)-*Dual credit available through Automotive Chassis Geared towards all students pursuing a college degree in the field.*

*College Automotive Electrical Lecture only (TRID 181) **F/S** (11/12)-*Dual credit for Automotive Electrical. Geared towards all students pursuing a college degree in the field.*

Coding/Web Design (CTE)

Web Page 1 **F/S** (11/12)-*Sophomores permitted with Visual Media Prerequisite*

Web Page 2 **F/S** (11/12)

*College Introduction to Web Design and Programming (CSCI 181) **F/S** (10/11/12)-*Dual Credit option for Web Page 1. Geared towards all students pursuing a college degree in the field.*

Culinary

*Cafe Protege-2 Hr Block Schedule **FY** (11/12)

Early Childhood Education

First Year F/S or FY

Fall

Early Childhood Physical Development (11/12) **F**-2Hr Block Schedule

Early Childhood Intellectual Development (11/12) **F**-2Hr Block Schedule

Early Childhood Fundamentals (11/12) **F**-*Additional course for 3 hour block*

Spring

Early Childhood Social Development (11/12)**S** -2Hr Block Schedule

Early Childhood Emotional Development (11/12)**S** -2Hr Block Schedule

Child and Careers (11/12)**S** -*Additional course for 3 hour block*

*College EDU Human Growth and Development (EDU 220/220L) **FY**-*Dual Credit course for Early Childhood Physical Development and Social Development-Must be enrolled in both semesters consecutively. Geared towards all students pursuing a college degree in the field.*

Engineering- Project Lead the Way

PLTW Three-Year plan

Introduction to Engineering Design **FY** (9/10/11/12)**Geometry is a require pre/corequisite*

Principles of Engineering **FY** (10/11/12)

Engineering Capstone **FY** (12)

Additional Engineering classes

Digital Electronics Engineering **FY** (10/11/12)

Aerospace Design **FY** (10/11/12)

Home Build Courses

Construction (3 hour blocks-am or pm)

First Year F/S or FY (11/12)

Fall

Construction Fundamentals 1

Carpentry 1

Construction Technique 1

Second Year F/S or FY (12)

Fall

Building Trades 1

House Building 1

Construction Technique 3

Spring

Construction Fundamentals 2

Carpentry 2

Construction Technique 2

Spring

Building Trades 2

House Building 2

Construction Technique 4

Electrical/Electronics

First Year FY

Electronics 1/Electric 1 **F** (11/12)-2Hr Block Schedule

Electronics 2/Electric 2 **S** (11/12)-2Hr Block Schedule

Second Year FY

Electrical Technician 1/Electronic Communication 1 **F** (12)-2Hr Block Schedule

Electrical Technician 2/Electronic Communication 2 **S** (12)-2Hr Block Schedule

Home Improvement

F/S or FY

Home Design/Interior Design **F** (11/12)-2Hr Block Schedule

Home Improvement/Design Improvement **S** (11/12)-2Hr Block Schedule

College Introduction to Interior Design **FY (11/12) -Full year dual credit for Interior Design courses. Must enroll in both semesters consecutively. Geared towards all students pursuing a college degree in the field.*

Alternative Shed Construction (3 hour blocks-am or pm, IEP required)

First Year F/S or FY (11/12)

Fall

+Construction Fundamentals 1

+Carpentry 1

+Construction Techniques 1

Spring

+Construction Fundamentals 2

+Carpentry 2

+Construction Techniques 2

Second Year F/S or FY (12)

Fall

+Building Trades 1

+House Building 1

+Construction Techniques 3

Spring

+Building Trades 2

+House Building 2

+Construction Techniques 4

JMG

Jobs for Montana Graduates **F/S or FY** (11/12)-*Meets new personal finance graduation requirement*

Medical Courses-Project Lead the Way

PLTW First Year

Principles of Biomedical Sciences **FY** (9/10/11/12)

PLTW Second Year

Human Body Systems **FY** (10/11/12)

PLTW Third Year

Medical Interventions **FY** (11/12)

Additional Medical Courses

Introduction to the Operating Room **F/S** (11/12)

Certified Nurse Assistant **F/S** (11/12)

Anatomy and Physiology/Applied Medicine **F/S** (12)-(AKA Med Careers)-2Hr Block-Suggested prerequisites/corequisites include PBS, HBS, MI, and/or College Medical Terminology

*College Medical Terminology (AHMS 144) **F/S** (11/12)-Geared towards all students pursuing a college degree in the field.

*College Basic Human Biology with Lab (BIOH 104/105) **FY** (11/12)-Geared towards all students pursuing a college degree in the field.

*College Emergency Medical Technician (EPC 291) **FY** (12)-Medical prerequisites/corequisites suggested include PBS, HBS, Medical Interventions, and Anatomy and Physiology/ Applied Medicine-Geared towards students pursuing a college degree in the field.

Visual Media/Graphics (visual/performing art or CTE credit)

Exploring Visual Media **F/S** (10/11/12)

Animation Lab 1 **F/S** (11/12)-Sophomores permitted with Visual Media Prerequisite

Animation Lab 2 **F/S** (11/12)

Graphics/Print Photo **F/S** (11/12)-2Hr Block Schedule

AP 2D Art and Design-Photography **F/S** (11/12)-2Hr Block Schedule- Advanced placement course

Digital Photo **F/S** (11/12)-Prerequisite-no longer required

Design Advertising/Design Layout **F/S** (11/12)-2Hr Block Schedule

Digital Illustration **F/S** (11/12)-Prerequisite- Design Advertising/Design Layout

Welding All welding course must be taken in order

Semester 1

Manufacturing Process 1/Manufacturing Design 1 **F/S** (11/12)-2Hr Block Schedule

Semester 2

Manufacturing Process 2/Manufacturing Design 2 **F/S** (11/12)-2Hr Block Schedule

Semester 3

Manufacturing Technology 1/Manufacturing System 1 **F/S** (12)-2Hr Block Schedule

Semester 4

Manufacturing Technology 2/Manufacturing System 2 **F/S** (12)-2Hr Block Schedule

*College Welding 125 (Cut/Shielded Metal Arc Welding Lab WLDG 125) **F/S** (12) 2Hr Block Schedule-Geared towards all students pursuing a college degree in the field.

*College Welding 157 (Semi-automatic & SMAW Lab WLDG 157) **F/S** (12)-2Hr Block Schedule -Geared towards all students pursuing a college degree in the field.

Metal Machining

Machinist Technology-Manual **F/S** (11/12)

CNC Machining Technology **F/S** (10/11/12)-Recommended Prerequisite Machinist Technology-Manual

CNC Machining Technology and Design **F/S** (10/11/12)-Prerequisite CNC Machining Technology

--CNC courses only available to sophomores who have completed and earned credit in Intro to Engineering Design

Additional Course offerings

*Independent Study **F/S or FY** (11/12)-Coordinated through specific instructors for pathway students who have exhausted curriculum; additional applications or permissions apply*

*Transitions **F/S or FY** (9,10,11,12)-Referral Process and special requirements apply*

*Options **F/S or FY** (12)-Referral Process and special requirements apply*

*Workplace Experience **F/S or FY** (12)-Organized through Career coaches*

*Study Hall **F/S or FY** (9,10,11,12)-No credit available*

+This guide is for reference only and is subject to change at any time.