Independent School District 196

Career Development and Enrichment Opportunities Program

Registration Guide 2017-18

District 196 does not discriminate in employment or in any of its programs and activities, including vocational opportunities, on the basis of race, color, creed, religion, national origin, sex, marital status, status with regard to public assistance, familial status, membership or activity in a local human rights commission, disability, sexual orientation, age or genetic information. District 196 provides equal access to designated youth groups. The Director of Human Resources (651-423-7859) has been designated to respond to employment-related inquiries regarding the non-discrimination policies. The Director of Elementary Education (651-423-7782) and the Director of Secondary Education (651-423-7712) have been designated to respond to student-related inquiries regarding the non-discrimination policies. The Director of Special Education (651-423-7629) has been designated to respond to inquiries concerning the rights of a student with a disability. The mailing address for all directors is 3455 153rd Street W, Rosemount, MN 55068.

District 196 will take steps to assure that English language skills will not be a barrier to admission and participation in vocational programs. If you speak another language and have questions, please contact the District 196 Integration - Equity Coordinator at (651-423-7914).

Career Development and Enrichment Opportunities Program

The District 196 Career Development and Enrichment Opportunities Program offers a variety of courses designed to expose you to possibilities available in today's and tomorrow's workforce. Business and community leaders across the nation indicate that you must have a sound academic background combined with the ability to apply what you learn to succeed in a global economy. The Career Development and Enrichment Opportunities Program courses can help you understand your interests and talents, select potential career fields for the future, and decide upon appropriate post-secondary learning and training opportunities.

The courses listed in this registration guide provide opportunities for you to reach your full potential. The courses incorporate strong academic preparation, unique field trip opportunities, and partnerships within the community. We encourage you to take advantage of these offerings and the expanded opportunities they provide.

Registration

The Career Development and Enrichment Opportunities Program is offered to juniors and seniors enrolled at any of the district's high schools. Courses are filled on a space available basis unless otherwise noted in the registration guide. Priority registration is given to seniors, followed by juniors. You may register for any of the Career Development and Enrichment Opportunities Program courses through the regular registration process at your high school.

Transportation

Transportation is NOT provided by the district.

Students must purchase a parking permit from their home school in order to park on the campus where the course is taught. Students are required to turn in a Release of Liability for Students Transporting Themselves Between School Sites During the School Day (707.13P).

Concurrent Enrollment and Articulation Agreements

By successfully completing courses that are articulated with post-secondary institutions, you may earn college credit or a course waiver to enable you to enroll in the next level of a college program.

Ask your instructor about concurrent enrollment credits and articulation agreements that may be offered in your class.

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Introduction to Animal Science: College in the Schools

7701 Introduction to Animal Science A
7702 Introduction to Animal Science B
7703 Introduction to Animal Science C

Grade: 11, 12
Site: School of Environmental Studies
Prerequisite: See Below
Length: Two Periods, Full Year Recommended

CIS

Introduction to Animal Science would be of benefit to any student planning on entering the field of animal care whether it is with pets, livestock, or exotics. Students will gain valuable hands-on experience with animals. Course content will emphasize fundamental concepts of physiology, nutrition, animal breeding and management. Students will gain experience in classroom and lab settings with pets and companion animals, rabbits, horses, dairy cattle, swine, poultry, fish, and other animals.

• Requirements set by the University for enrollment include being in the top 50% of your class or instructor approval. If you are not in the top 50% of your class, but feel this course is a good fit, please contact the instructor.

• Students successfully completing Animal Science A, B, and C may be able to earn college credit from the University of Minnesota. Students should contact the course instructor for more information.

Zoos, Aquariums, and Small Animal Care

7707 Zoos, Aquariums, and Small Animal Care A
7708 Zoos, Aquariums, and Small Animal Care B
7709 Zoos, Aquariums, and Small Animal Care C

Grade: 11, 12
Site: School of Environmental Studies
Prerequisite: None
Length: Two Periods, Full Year Recommended

MINNESOTA ZOO
Changing how you see the world

This course will feature basic care and management of animals as pets, in zoos and aquariums, and in the wild. A special emphasis will be placed on freshwater and saltwater aquatic species. Students will visit the Minnesota Zoo and examine animal exhibits to learn about captive and wild animal management. Career areas explored include aquarium keeping, life support, zoo keeping, collections management, exhibit design, animal training, animal health, horticulture, pet care, and wildlife management.

Aviation and Ground School

7710 Aviation and Ground School A
7711 Aviation and Ground School B
7712 Aviation and Ground School C

Grade: 11, 12
Site: Eagan High School
Prerequisite: None
Length: Two Periods, Full Year Recommended
Fees: Optional flight time to be arranged and paid for by student

LEARN TO FLY HERE! The aviation industry offers a wide range of career opportunities and there is a growing need for qualified personnel. If you are interested in pursuing a career in aviation, you've landed in the right place!

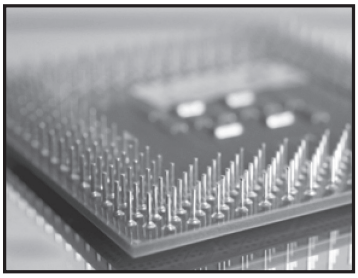
During this course, students will develop the skills and knowledge required to pass the FAA written exam for a private pilot's license by Certified Flight Instructors. Faculty from Academy College will teach this course at Eagan High School. Additionally, through field trips and guest speakers, students will explore a variety of careers in aviation, including: Commercial Pilot, Aircraft Maintenance Technician, Aerospace Engineering, Aircraft Manufacturing, Airport Operations, and Air Traffic Control. This is a hands-on course which includes a variety of projects, activities, and the use of flight simulators and drones!

• Students successfully completing Aviation & Ground School A, B and C and who pass the Private Pilot Exam may be able to earn Articulated Credit and/or Concurrent Credit from a local post-secondary institution. Students should contact the course instructor for more information regarding college credits and participating post-secondary institutions.

Computer Hardware, Software and Game Design

7731 Computer Hardware, Software and Game Design A
7732 Computer Hardware, Software and Game Design B
7733 Computer Hardware, Software and Game Design C

Grade: 11, 12
Site: Rosemount High School
Prerequisite: None
Length: Two Periods, Full Year Recommended



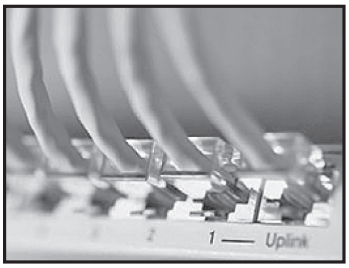
Computer Hardware, Software and Game Design presents an in-depth exposure to PC hardware, operating systems and video game design. The course will focus on the functionality, assembly and configuration of PC Hardware, the installation and configuration of Operating Systems, and introduction to Video Game Design through the use of online resources, hands-on activities, and labs. Students will also build a state of the art PC and learn to design and create game maps and levels for in-depth, hands-on projects.

• Students successfully completing Computer Hardware, Software and Game Design A, B and C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Computer Networking Technology: CISCO

7734 Computer Networking Technology: CISCO A
7735 Computer Networking Technology: CISCO B
7736 Computer Networking Technology: CISCO C

Grade: 11, 12
Site: Apple Valley High School
Prerequisite: None
Length: Two Periods, Full Year Recommended



The Introduction to CISCO Networking Technologies (INTRO) course based on the CISCO Networking Academy presents students with recognized industry standard training. Using text and graphics animation, students will learn basic networking terminology, internetworking concepts, and basic network routing and switching. In addition, students will complete hands-on projects such as wireless networking and home-made routers. After completing this course students will be prepared for the CISCO (641-821) INTRO exam.

• Students successfully completing Computer Networking Technology: CISCO A, B and C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Emergency Services

7746 Emergency Medical Services A
7747 Law Enforcement B
7748 Fire Fighting C

Grade: 11, 12
Site: Rosemount High School
Prerequisite: None
Length: Two Periods, Full Year Recommended

Law enforcement, firefighting and emergency medical service (EMS) careers demand quick thinking, adrenalin and sweat to answer the calls from individuals who need help or when responding to a natural or manmade disaster. First trimester, students will learn how to assess and treat wounded or sick patients while on scene by using all of the equipment found in an ambulance or rescue truck. During second trimester, this class focuses on criminal investigative techniques, state traffic and criminal law, and gives students an inside view of the wide variety of law enforcement career choices offered by local, state and federal agencies. Third trimester, the class includes learning fire suppression techniques while in full firefighter turnout gear, incident management, and awareness level certification in hazardous materials response.

• Students successfully completing Emergency Medical Services A, Law Enforcement B and/or Fire Fighting C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

• Students have the opportunity to become certified at the state and national levels as an EMS First Responder (required for all police and firefighters in Minnesota). NOTE: A student donation of $20 will be requested.

Advanced Emergency Services

7749 Advanced Emergency Services C

Grade: 12
Site: Rosemount High School
Prerequisite: Emergency Medical Services A
Length: Two Periods, Spring Trimester

This section of the course will prepare students to take the written and practical skills test required for certification by the Minnesota Emergency Medical Services Board as an Emergency Medical Technician. This national certification is the basic level required for ambulance drivers in the United States.

As a part of the EMS training each student will be required to have completed and passed a CPR course at the Professional Rescuer level and received Emergency Medical Responder certification through the Minnesota Emergency Medical Services Regulatory Board. This course will refresh the skills learned in the first trimester of Emergency Services Occupations and will also add the required knowledge needed in order to pass the National Registry of Emergency Medical Technicians written exam.

The evaluations in the course will include the following:
• State Evaluator score earned as part of the EMT Practical Skills Test (8 stations).
• The score received after taking the FISDAP computerized EMT preparation exam (150 questions).

The State of Minnesota requires all first time EMTs to pass the computerized test administered through the National Registry of Emergency Medical Technicians (NREMT). This test is given in Eagan and will cost $70 each time it is taken. The FISDAP preparation exam is 96% accurate in determining if the candidate is ready to take the NREMT exam.

• Students successfully completing Advanced Emergency Services C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Forensic Science

7750 Forensic Science A
7751 Forensic Science B
7752 Forensic Science C

Grade: 11, 12
Site: Rosemount High School
Prerequisite: None
Length: Two Periods, Full Year Recommended

The forensic specialist's goal is to use all available information to determine the facts, and subsequently, the truth based on the evidence found at the crime scene. This course will define the scope of forensic science and introduce the student to career possibilities in forensic investigations. The enormous range of material challenges the ingenuity of the forensic specialist who examines and identifies hair, fibers, blood, body fluids, stains, alcohol, drugs, paint, glass, soil, flammables, and identifies firearms and compares bullets, tool markings, and foot prints. The class will analyze the role of the investigator through the use of case histories and hands-on experience.

Advanced Forensic Science

7753 Advanced Forensic Science A
7754 Advanced Forensic Science B
7755 Advanced Forensic Science C

Grade: 12
Site: Rosemount High School
Prerequisite: Forensic Science A-C
Length: Two Periods, Full Year

Students who take Advanced Forensic Science have the opportunity to select one topic of interest within the forensic field to investigate in depth. Since forensics procedures are constantly being challenged in court (called a Daubert challenge) the task for the student in this course will be to take a close look at one of the protocols in forensics, find its strengths and weaknesses with regard to Daubert standards, and add to the current body of information about it. Research of a particular topic will include a review of the Daubert ruling, a literature search of the topic of interest, interaction with an expert in the field, designing and carrying out a scientific experiment to expand the body of knowledge of the topic, and presentation of findings to one of the forensics classes. In addition, students will be asked to use their knowledge of forensics to help create one mock crime scene during the trimester and facilitate the processing of that scene by Forensic Science class members.

Hospitality Management

7756 Travel and Tourism A
7757 Hotel, Restaurant, and Gaming B
7758 Event Planning C

Grade: 11, 12
Site: Eagan High School
Prerequisite: None
Length: Two Periods, One Trimester Only or Full Year

Are you Creative? A good Communicator? Do you love to meet people? Did you know there are over 126,257,000 jobs projected in the Travel and Tourism industry by 2024?

Hospitality is a hands-on, interactive class where students experience first-hand what it looks like to work in the Travel & Tourism Industry. Through local community partnerships, students will explore and tour work and career settings within the hospitality and tourism industry, plan real events for the community, and learn about industry trends while emphasizing the communication skills that are essential to delivering good customer service.

7756 Event Planning and Management A: Fall Semester
In this course, students will have a hands-on experience of the exciting world of event planning. Through the eyes of professionals in the field, students will learn about the career of an event planner, the venues they are working in, and the events they are creating. Class projects will include planning and executing real events for Eagan High School, other local schools and community organizations or businesses. Students will be responsible for the planning, publicity, budgeting/ agenda preparation, sales and marketing, negotiations, contracts and hosting of the events.
*Students will have ongoing event planning opportunities in Trimester 2 and 3.

7757 Travel and Tourism B: Winter Trimester
Travel and tourism is critical to Minnesota's economy. Students will learn about all aspects of personal travel and planning a trip for others. This course will take students beyond traditional vacation planning to exploring trips that include adventure travel, theatre and sporting events like Super Bowl 2018 to be hosted in Minnesota! Additionally, students will explore transportation within the travel industry such as air, bus and train travel.

7758 Hotel and Restaurant C: Spring Trimester
If you enjoy customer service, the hotel and restaurant industry may be a place for you. Students will learn about the range of career opportunities "in the front of the house" and "in the back of house". Learn about ways to work directly with consumers or to combine your interests in technology, accounting or management with hospitality. The possibilities are endless!

• Students successfully completing Hospitality Management A, B and/or C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Advanced Hospitality Management

7759 Advanced Hospitality Management A
7760 Advanced Hospitality Management B
7761 Advanced Hospitality Management C

Grade: 12
Site: Eagan High School
Length: Two Periods, One Trimester Only or Full Year

Are you interested in looking deeper into a career in the Hospitality industry? This course will allow you to focus in your areas of interest whether that is Travel and Tourism, Hotel and Restaurant, Gaming or Event Planning. Get hands-on experience through job shadows and internships.

Medical and Health Care

7762 Medical and Health Care A
7763 Medical and Health Care B
7764 Medical and Health Care C

Grade: 11, 12
Site: Rosemount High School
Prerequisite: None
Length: Two Periods, Full Year Recommended

Students will learn the principles and processes of the health, medical and human performance sciences in a classroom and lab setting. Through the study of basic anatomy, physiology and medical terminology, students will apply core academic and career specific technical skills to explore health related careers in medicine, emergency medicine, nursing, sports medicine, physical therapy, exercise physiology, dietetics/nutrition, medical technical, laboratory sciences, biotechnology, psychology and medical research. Guest speakers, job shadowing, "animation clay" labs, clinical activities, and field trips are Integral l components of the course. Assorted models, "Interactive Anatomy " computer programs and a synthetic cadaver provide outstanding learning tools.

• Students successfully completing Medical and Health Care A, B and C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Advanced Medical and Health Care

7765 Advanced Medical and Health Care A
7766 Advanced Medical and Health Care B
7767 Advanced Medical and Health Care C

Grade: 12
Site: Rosemount High School
Prerequisite: Medical and Health Care A-C
Length: Two Periods, Full Year Recommended

Students will learn and apply the principles and processes of health, medical and human performance sciences in a classroom and lab setting. Students will apply core academic and career specific technical skills to explore health-related careers within the individual's selected target careers.

• Students successfully completing Advanced Medical and Health Care A, B and C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Music Production 1

7768 Music Production 1A
7769 Music Production 1B
7770 Music Production 1C

Grade: 11, 12
Site: School of Environmental Studies
Prerequisite: None
Length: Two Periods, Full Year Recommended

This full year course is designed for the serious student who wants to explore career options related to the music recording/production industry. Through class work, independent projects, and solo or ensemble rehearsal, students will learn the skills, theory, and techniques of music recording and production. Students should have some previous training in music—either vocal or instrumental. Using today's music studio technology and techniques, students will create recorded works in many different styles.

• Students must enroll in sections A and B in order to participate in section C. At the end of section C, students will have the opportunity to take a project through the pre-production, recording, editing, mixing, and mastering processes.

• Successful completion of this course, Music Production 1A, B or C, satisfies the one credit Minnesota "Arts graduation standard.

Music Production 2

7771 Music Production 2A
7772 Music Production 2B
7773 Music Production 2C

Grade: 11, 12
Site: School of Environmental Studies
Prerequisite: Music Production 1A-1C or Instructor Approval
Length: Two Periods, Full Year Recommended

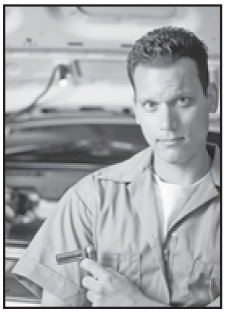
The Music Production 2 class is for those students who are dedicated to making a career in music production. In this class, students will spend more time with audio systems purchase/ setup/care, in-depth knowledge of microphones/recording techniques, and advanced production techniques. Students will be expected to research and apply technical recording and production concepts as they work on larger scale projects. Students will finish the class by presenting a portfolio of their work that demonstrates their knowledge of music production.

• Successful completion of this course, Music Production 1A, B or C, satisfies the one credit Minnesota "Arts graduation standard.

Vehicle Services

7774 Vehicle Services A
7775 Vehicle Services B
7776 Vehicle Services C

Grade: 11, 12
Site: Rosemount High School
Prerequisite: None
Length: Two Periods, Full Year Recommended



An automobile is the second largest expense most people will incur. The Vehicle Services class will explore the skills needed for today's successful automotive technician. The curriculum will concentrate on the Maintenance and Light Repairs (MLR) level of training that NATEF (National Automotive Technicians Education Foundation) standards require. This industry is in great demand and rewards entry level technicians with over $13/hr while attending school. Students can expect job position growth and wage increases with the addition of the technical skills taught in this course. The student will work on live applications, both student supplied and school owned. No driver's license or previous technical experience is necessary. Don't miss out on this opportunity to learn more about this exciting and profitable industry, as well as the chance to save money on vehicle repairs in the future. There are no fees required, however, students are expected to pay for fluids and maintenance items if working on their personal vehicle.

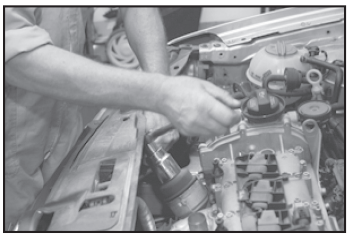
Finishing this year-long course and the Advanced Vehicle Service course the next year, students can earn ASE student certifications in the areas of brakes, suspension and steering, electricity and electronic components, and engine performance.

• Students successfully completing Vehicle Services A, B and C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

Advanced Vehicle Services

7777 Advanced Vehicle Services A
7778 Advanced Vehicle Services B
7779 Advanced Vehicle Services C

Grade: 12
Site: Rosemount High School
Prerequisite: Vehicle Services A, B, and C
Length: Two Periods, Full Year Recommended



The goal of Advanced Vehicle Services (AVS) is to train and prepare students for entry level employment in the automotive and truck repair industry. AVS is a continuation of Vehicle Services and the topics taught prepare students to take four ASE Certifications at the MLR level. Students will be learning from ASE Master certified instructors. Students successfully completing AVS have the training to be employed in entry level technician positions. Additional education beyond high school is recommended to find continued success in the industry. There are no fees required for AVS, however, students are expected to pay for fluids and maintenance items if working on their personal vehicle.

During Trimester 1, we will be covering advanced vehicle drive train systems. This includes but is not limited to ABS brake systems, drive axle service, suspension and steering part replacement and rebuild, alignment and automatic transmission rebuild (using GM TH350). Additionally, students will design and complete a shop improvement project to gain a sense of ownership and responsibility.

Trimester 2, students will perform a complete engine rebuild with a final result of the engine running on a designated stand. Most likely students will be using a GM/Chev. 350. Students are permitted but not required to supply their own engines and components.

In the 3rd trimester, we will delve deeper into modern day ignition and fuel system diagnosis and repair. Students will spend time analyzing computer scan diagnostic information. Students will also work with electrical circuits both trouble shooting and repairing faults. Late model testing equipment and vehicles will be provided.
This advanced level course is project-based, hand-on and detail orientated. The course requires successful completion of Vehicle Services A, B, and C as well as a self-motivated independent learner.

• Students successfully completing Advanced Vehicle Services A, B and C may have the opportunity to earn Articulated College Credit from a post-secondary institution. Please contact the course instructor for more information regarding articulation agreements and participating colleges and universities.

School District 196
MENTOR PROGRAM
Partnerships with Professionals

Mentor Program

Beyond the classroom, learning opportunities are boundless.
This premier program offers two courses for college bound students.

Mentor Seminar

Grade: 11, 12
Prerequisite: Application and Mentor Program Coordinator Approval
Length: One Period, One Trimester Fall, Winter or Spring*
Credits: 1*

* EVHS and SES students – see registration guide for further information.

Mentor Seminar is a college and career prep course which gives you the advantage over your peers needed to prepare for your future. Students will identify personal interests and skills to guide them while exploring college options and researching career opportunities. Students will develop professional skills, including interviewing, networking and interpersonal communication. The opportunity to meet with a professional in your chosen career field brings the real world to the classroom. Students are strongly encouraged to enroll in Mentor Field Experience to complete the Mentor Program. Students may also take Mentor Seminar as a stand-alone course.

Students successfully completing Mentor Seminar may be able to earn Advanced Standing Credit from a local post-secondary institution. Students should contact the course instructor for more information regarding articulated credits and participating post-secondary institutions.

Mentor Field Experience

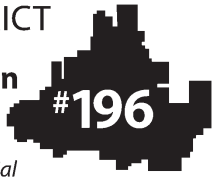
Grade: 11, 12
Prerequisite: Mentor Seminar and Mentor Program Coordinator Approval
Length: Two Periods, One Trimester Fall, Winter, Spring*
Credits: 2*

* EVHS and SES students – see registration guide for further information.

Mentorship in the workplace with a career professional is a blueprint for high performance. This course is experience-based. Leave the classroom behind as you enter into the professional's world to gain exposure in the career field of your choice. In addition to a weekly class session with instructors and peers, you will be released from school to work with your career professional and learn first-hand what your career is all about. You will select and design an individual project under the guidance of your mentor and instructor. This course targets advanced level learners and requires a high level of student independence and responsibility. **Students must provide their own transportation to their mentor site.**

INDEPENDENT SCHOOL DISTRICT

Rosemount-Apple Valley-Eagan Public Schools



Educating our students to reach their full potential

School District 196 Administration and Staff

SCHOOL BOARD

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ADMINISTRATION

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Paulette Reikowski, Principal, Eagan High School
Randall Peterson, Principal, Eastview High School
John Wollersheim, Principal, Rosemount High School
Dan Bodette, Principal, School of Environmental Studies

BUILDING CONTACTS

Apple Valley High School, Pete Buesgens – 952-431-8211
Eagan High School, Peter Zak – 651-683-6904
Eastview High School, Bruce Miller – 952-431-8912
Rosemount High School, Drew Storley – 651-423-7510
School of Environmental Studies, Dan Bodette – 952-431-8750

DISTRICT OFFICE CONTACTS

Director of Teaching & Learning, Steve Troen – 651-423-7884
Federal & State Program Specialist, Nandi Rieck – 651-423-7719
Assistant to Program Specialist, Mariann Scallon – 651-423-7724

December 2016