	Ag - Animal Science	Ag - Natural Resources	Ag Fabrication	Ag Mechanics	Ag Welding	Aviation I	Aviation II	Child Development	Cybersecurity	Electronics I	Emergency Medical Technician	Family Living	Graphic Design & Photography I	Independent Living	Intro to IT	Intro to Networking	Intro to Programming	IT Essentials	Marketing	Med Related Careers I - 1st. Per.	Med Related Careers I - 2nd Per,	Med Related Careers II	Medical Records	Medical Related Careers I	Medical Terminology	Networking II	Parenting	Sports & Ent. Marketing	Sports Medicine	STEM Seminar I	STEM Seminar II	Visual Basic	Grand Total
Ashley						-						5		_	-	-	_	1						-			1						15
Beulah													3		4	3		4			5				4	_				1	1		28
Bis Century																									22								22
Bis High School																									17								17
Bis Home School																	1							1								1	3
Bis Legacy												-						117							8								8
Bis Shiloh				1	1	1	1	3	9			2	1	4	2	5		1	4			2	1	10	16	4	1	10		6	6		91
Bis St Marys								4	2	1		1	8	18	1	1	2	1	3			4		22	2	1	2	7		3	1	2	86
Burke Central			4	5	1																												10
Center Stanton								7 1														1		2									3
Flasher	1	1			2	3					1		1		2			2						2									15
Garrison		 																			3				2								5
Glen Ullin						5																											5
Goodrich			1	1				1				1		1		Maria														1	1		6
Grant Co			<u> </u>	·				2		1		3	1	1	2			3				1			1		4		3	4	4		30
Hazen									1								1		1						1					1	2		7
НМВ	2	2	-		1	2		2					3		1			1			3						1						18
Kenmare	-	-	 	1	-	_	3	-		1	1	3	2										1		1		7	1					28
Kidder Co	1			<u> </u>			-			<u> </u>	<u> </u>	_	_				1							1	2							1	6
Linton	-	-	_			4		-					1	2	1			1				1		5	3	-		1					19
	-	-	-	_	_	7		-						-	_						5												5
Max	-	-	-	-	-	-			_				6		2	1		2		5			1	1		1				8	8		35
Napoleon	-	-	-	-	-	-	-						-		-	 				2													2
New England	-		-		-	5	-	1				1	4	4	1		1	1	2	_		1		5	2		6	2		12	8	1	57
New Salem	-	-	-		-	3		+		1				7	'		<u> </u>	-												1			2
Solen			-	-		-		4	4	-				1	1			1	2					1						3	3		14
Strasburg	-	-	-		-	-		1	1				2			-			2					-	-								2
Surrey	-	-	-	-	-	-	-	-		- 4						-			2					1	1					4	4	7 - T	13
TLM	-	-		-	-	-		-		1														7	- '					3	_		14
Underwood		-	1	-	1	-		-																3					77.1	3		-	4
Washburn	-	-				-	-			1	-				-									3	-	1				3			13
White Shield	-	-	2	5	1	-						1		1	-					1	2	,	2	3	2					1	1		16
Wilton		-	_		_	-	-							-				-		1	2	4	2	3			2			3	-		16
Wing		-				2	-	1			-	3		2										1			2			3	3		
Wishek	200	-								1						-		-						1	-						_		2
Zeeland							1			2						-			1,000				_					0:	_	-	4.		3
Grand Total	4	3	8	13	7	22	5	18	13	9	2	19	34	43	18	10	6	18	14	8	18	14	5	65	84	9	24	21	3	54	44	5	620



Registration Guide for 2017/2018

http://mrecnd.org/mractc

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MRACTC/MREC Administration

Dale Hoerauf—CTE Director MRACTC & Bismarck Public Schools

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To Be Named —Assistant CTE Director

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Connie Grause—CTE Secretary

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Lyle Krueger—MREC Coordinator Office: 701-751-4041 ext. 105 Email: <u>Lyle.Krueger@k12.nd.us</u>

Alissa Thiele - MREC CTE Secretary/MRACTC Powerschool Adminstrator

Office: 701-751-4041 ext.101, Fax: 701-751-4043

Email: MREC.Secretary@mrecnd.org or Alissa.Thiele@k12.nd.us

MRACTC TEACHERS

Agriculture: Riston Zielke-Hebron, Misty Steeke-Scranton, and Glen Huettl-Garrison.

Aviation: Mike Kadrmas Electronics: Lee Gullingsrud

Family & Consumer Science: Pam Vukelic Marketing: Michelle Hoff

Graphic Arts: Kim Eslinger Information Tech: Ray Hintz, Daphne Heid

STEM – Daphne Heid, Tim Meyer, and Dalon Grimm.

Health Science Careers: Joelean Lowman, Blaine Steiner, Lorie McCarthy, Heather Frey, Jessica Schafer, or Sarah Barreth. Also Bobbie Schneider, Dickinson or Christine Christensen, Williston

Additions or changes may be made based on enrollments received.

See our website for updates: www.mrecnd.org/mractc



MRACTC MISSION:

To provide Career and Technical Educational (CTE) opportunities to our member schools students, in the most economical fashion, where every student has the same educational opportunity regardless of the size or location of the school.

MRACTC

The MRACTC is a "Virtual" Career and Technical Center established in 2008 as a partnership between the MREC – Missouri River Education Cooperative and Bismarck Public Schools. The MREC is 1 of 8 Rural Educational Associations (REA's) in North Dakota. Initial funding for this program came from a grant from the North Dakota Legislature through the State Department of Career and Technical Education and from the memberships of 28 school districts with high schools that are part of the MREC.

MRACTC STUDENTS

The MRACTC delivers CTE courses to students utilizing Interactive Television (ITV) and Online Virtual classroom environments. Our goal is to provide opportunities for students to enroll in courses to complete a program of study. CTE concentrators (students that complete 2 or more credits in a program of study) can qualify for the \$6000 ND State CTE Scholarship Program. See your high school counselor for details- which may include taking the "Work Keys" test to qualify.

The ITV courses are provided in cooperation with our partner Area Career & Technology Centers and the Great Western ITV Network (GWN). Registration for ITV courses is coordinated through the GWN and follows the GWN class schedule. Most CTE based ITV courses also integrate online components. Courses taught online require students to be self- motivated and responsible to access courses on a daily basis. Participation in these courses is subject to the approval of the local school administration.

MRACTC CTE courses will include hands-on and career exploration events that students will be expected to participate in. This may include required CPR and First Aid Certification days, industry tours, training and career exploration events such as training and deployment of "Real Care" babies, hands-on welding experience, etc... that are integral to the skill and knowledge development in these classes. It may also include optional activities such as participation in Career & Technical Student Organizations (CTSO's such as DECA, FFA, Skills USA, HOSA or TSA) or industry field trips. Most courses will have one event per semester, but courses such as welding may require more. Travel is the responsibility of the local school, with travel reimbursement available from the MRACTC if needed.

Other ITV and online courses are available through our partner area virtual centers which include:

- Roughrider Area Career and Technical Center http://www.ractc.k12.nd.us
- Great Northwest Area Career and Technical Center http://www.gnwec.k12.nd.us
- Central Dakota Distance and Learning Consortium http://www.cddlc.k12.nd.us

Fees for these courses are not covered by MRACTC membership unless included in this registration guide.

REGISTRATION PROCEDURE

Registration forms and a copy of this guide are located on the MREC web page, www.mrecnd.org/mractc

The registration form asks for basic student information that we need to enter into the MRACTC registration summary. Indicate the selected course name, course term and type along with the name, gender and email address for each student. Additional information we need for our powerschool site will also be requested prior to the start of school. Information needed includes: home address and primary phone number, ethnicity, grade level, date of birth and the names of the student's parents. This information can be downloaded from the local schools'powerschool site and sent as a spreadsheet to MREC.Secretary@mrecnd.org.

<u>ITV Registration</u>: Complete the MRACTC registration form for these students and indicate "<u>I"</u> (for ITV) in the "course type" column and either F (fall), S (spring), or Y (full year) for "course term," as well as "gender" and "grade" columns for those courses offered via ITV. See the course schedule on the Great Western website at <u>www.greatwesternnetwork.com</u>. Also, please email the numbers of students for your school for each class to Bill Strasser at the Great Western ITV Network. We recommend you do this early because classes do fill up and there is a limit to the number of schools that an individual class can serve. Bill.Strasser@k12.nd.us.

OnLine Registration: Complete the MRACTC registration form for these students and indicate "O" for Online delivery in the "course type" column. Be sure to note which semester the course is offered and indicate F, S or Y in the "course term" as well as "gender" and "grade" columns.

CTE INTERNSHIPS – available by arrangement for each CTE program area.

Grades: 11, 12 ½ Credit/Semester Online + Placement
Prerequisite: CTE Concentrators that have completed at least 2 credits in a CTE program of study may be considered for Internships.

Students may continue their education with on-the-job experiences through participation in a workplace internship. Students 18 years or older may be required to have a background check per facility employer policies. Transportation to training sites is the responsibility of the student. Application and interview with the CTE instructor and internship coordinator is required prior to registration.

Deadline for Registration – April 18, 2017

<u>Lock-in date - May 8, 2017</u> After this time, substitutions and additions can be made but cancellations/drops will be charged the course enrollment student fee. Student enrollment fees for MRACTC member schools:

- \$150 per semester course - \$300 for full year courses.

Student enrollment fees for Non-member schools:

-\$300 per semester course - \$600 for full year courses.

Dual Credit - Several MRACTC courses provide students the opportunity to earn Dual Credit, giving them a head-start on a postsecondary education. Dual Credit for eligible courses is optional. College admission application and fees are the responsibility of the student, home school and the student's parents or legal guardians. MRACTC Instructors will assist in the enrollment process. Courses may be eligible for tuition reduction and students who qualify for free or reduced lunches may be eligible for financial aid or grants.

Facilitators - The MRACTC recognizes the importance of having a local facilitator for online courses. Instructors rely on the local facilitator to handle many of the daily needs that an instructor cannot address at a distance in the virtual environment. MRACTC provides reimbursement of 60% of up to a \$2000 stipend for one facilitator in each of our member schools (which could be a total reimbursement of \$1200). Schools may apply for reimbursement at the end of each semester.

Grade Scale - The MRACTC grade scale is; A = 92-100, B = 83-91, C = 74-82, D = 65-73, F = 64 and below. Dual Credit courses follow the providing college's grade scale. MRACTC grades are posted on the MRACTC powerschool. Grades are official at 9 am on the Monday following the end of each quarter and then can be transferred to the home schools' powerschool.

Powerschool - Login's and passwords are provided to each student and school facilitator or local powerschool administrator. Power School questions/issues should be directed to the individual course instructor.

The MRACTC calendar can be found at www.mrecnd.org/mractc

Withdrawal Policy - During the first 10 days of a semester, any class that is dropped would not show up on a transcript. If a student withdraws from a class prior to the end of 12 weeks into a semester, the grade would be recorded as a W (withdrawal, no grade, no credit). If the student withdraws after the twelve weeks, the grade will be recorded as a WP (withdrawal pass, no credit) or WF (withdrawal fail), no credit, counted as an F and will count on the students GPA. Most courses offered for a full year – 1 credit - cannot be given ½ credit if the student drops the class at the end of the first semester.

AGRICULTURE



AGRICULTURE IV (01074)

Grade: 10,11,12 1 Credit Full Year (RACTC) ITV - 7th Period

This course will develop agricultural skills for employment, entrepreneurship or further education in agriculture. This course will emphasize information and practices related to Plant Sciences and Crop Production. Students taking this course should have an interest in Agronomy, Crop & Soil Science, Conservation and Farm Management.

NATURAL RESOURCE MANAGEMENT (01063)

Grade: 10,11,12 1/2 Credit FALL SEMESTER Blended ITV/Online – 3rd Period

This course provides an opportunity for students to increase awareness of the close ties among living organisms. The ecology of our environment and human's use of our natural resources for recreation, wildlife management and agricultural production will be covered. This course can alternatively be coded as a science credit (13110)

LIVESTOCK PRODUCTION/ANIMAL SCIENCE (01061)

Grade: 10,11,12 1/2 Credit SPRING SEMESTER Blended ITV/Online 3rd Period This course can be taken for dual credit through Dickinson State University

This course will cover the history, future technology and career opportunities in Animal Science. Instruction will cover large and small animals, companion animals and production livestock. Students will be expected to participate in hands-on activities handling animals and will include an approved research project including written and oral presentations. This course can alternatively be coded as a science credit (13028)

AG MECHANICS POWER SYSTEMS (01045)

This Agricultural Mechanics course offers a study of the operation, maintenance, and repair of small gasoline engines. Instructional topics include but are not limited to the principles of operation of gasoline and diesel engines, tune-up and maintenance procedures, and disassembly, overhaul, and reassembly of gasoline small engines. Instruction may also include the operation of two cycle and four-cycle engines commonly found on lawn mowers, garden tractors, snow blowers, rotary tillers, chainsaws, and other equipment. As time allows, other agriculture power systems could be covered (ag. electricity and machinery). 20-25 hours of hands-on small engine lab experience is required for this course. Students will meet at a selected facility for hands on supervised overhaul/repair and maintenance as a part of this class. Travel to the facility will be the responsibility of the local school.

AG WELDING & FABRICATION (01046)

Grade: 10, 11, 12 ½ Credit Spring or Fall Semester Online + Labs

The Welding and Fabrication curriculum is designed to develop students' understanding of applied mechanical applications associated with the field of welding. Content includes, but is not limited to, instruction that prepares individuals to select, operate and maintain a variety of welding equipment and related tools. Subject matter may include: Oxy-fuel Cutting, Heating and Welding; Shielded Metal Arc Welding (SMAW); Gas Metal Arc Welding (GMAW) and Plasma Arc Cutting. Safety and Metal Fabrication as well as record keeping, leadership, communications, employability and human relations skills will also be emphasized. 20 -25 hours of hands-on welding lab experience is required for this course. Students will meet at a selected welding lab/facility for hands on supervised welding instruction as a part of this course. Travel to the facility will be the responsibility of the local school.



Support is also provided to schools where Welding Trades or Agriculture Programs are present. The MRACTC supports curriculum, consumable supplies, equipment and instructor in-service for these programs as well as a Summer Welding Academy for intermediate and advanced students.

AVIATION



AVIATION TECHNOLOGY I (17812)

Grade: 11, 12 1 Credit Full Year Online

This is the entry level course to prepare students for employment in the aviation industry. The course covers fundamentals of flight, flight operations, aviation weather, performance and navigation. The course also explores careers in air traffic control, flight dispatching and airport management. Units of instruction include: safety of flight, airport layout, aeronautical charts, radar, radio procedures, airplane power plant, aerodynamics, weather patterns and hazards. Emphasis on applied academics in math and science are integrated throughout the curriculum along with decision-making principles as it applies to flight-related factors.

AVIATION TECHNOLOGY II (17813)

Grade: 12 1 Credit Full Year Online

Students will be preparing to pass the Federal Aviation Administration (FAA) private pilot written exam. This course will cover advanced flight topics as well as expanding topics covered in Aviation I to an advanced level. An Introduction to Unmanned Aircraft Systems (UAS) will also be included. Successful completion of Aviation I is a prerequisite.

GRAPHIC ARTS

GRAPHIC DESIGN & PHOTOGRAPHY I (17072)

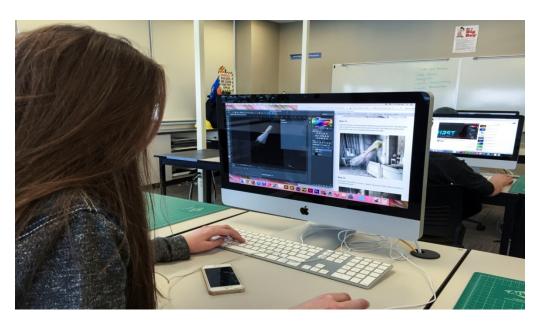
Grade: 10, 11, 12 1 Credit Full Year Online

This course will introduce students to the skills needed in graphic design. Students will be exposed to photography, scanning, the elements and principles of design, effective thumbnailing and typography. This course will address how artwork and photographic images can be used in commercial design. Students will create a digital portfolio for their artwork and they will be introduced to the following Adobe Creative Cloud Software: InDesign, Photoshop and Illustrator. Units will be based on the Print Ed competencies and the ND Graphic Communications Education Content Standards for introduction to Graphic Communications and Advertising Design.

GRAPHIC DESIGN & PHOTOGRAPHY II (17073)

Grade: 11, 12 1 Credit Full Year Online

This course will build on the skills needed in graphic design and introduce students to career opportunities, college and training opportunities for graphic designers. They will receive more advanced training in the following Adobe Creative Cloud Software: InDesign, Photoshop and Illustrator. They will continue to refine and develop their digital portfolio. The students will create artwork and photographic images that can be used as logos, artwork for t-shirts and other promotional materials. Units will be based on the Print Ed competencies and the ND Graphic Communications Education Content Standards for introduction to Graphic Communications and Advertising Design. Successful completion of Graphic Design & Photography I is a prerequisite.



ELECTRONICS

ELECTRONICS TECHNOLOGY I (17150)

Grade: 10, 11, 12 1 Credit Full year Online using Google Classroom

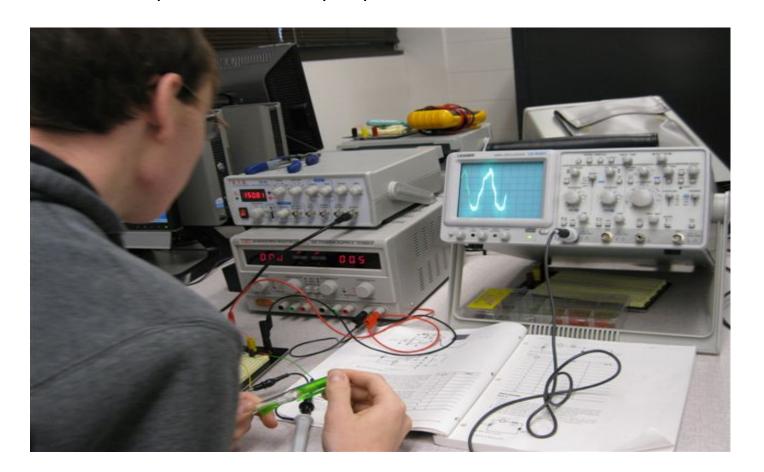
The course provides an online learning experience for the student interested in electronics technology. Today's electrical engineers, technologists and technicians continue to change the way we live. This hands-on course allows students to work in a lab environment where they will build, analyze and troubleshoot basic electronic circuits. The theory and lab environment in Electronics I provides a perfect starting point to explore the tremendous potential in career areas such as communications, bio-med technician, computer networking, automotive, manufacturing, engineering, and consumer electronics repair and installation.

Successful completion of Algebra I is highly recommended.

DIGITAL ELECTRONICS TECHNOLOGY (17151)

Grade: 11, 12 1 Credit Full Year Online using Google Classroom
This course continues the skill development of Electronics Technology I. It provides an online learning experience for the student that wants to continue to learn more about Digital Electronics. Students will be issued a portable digital trainer to complete labs and will be issued a textbook to learn the theory required to complete the labs.

Successful completion of Electronics I is prerequisite.



FAMILY AND CONSUMER SCIENCES

PARENTING (09130) Grade: 9 – 12 ½ credit Fall Semester Online

Designed for both males and females, this course will prepare you for what is probably the most important job you will ever have, that of being a parent. This course will help you develop positive attitudes, realistic expectations and effective skills for parenting. Pregnancy, parenting roles of fathers and mothers, financial impact of a child and other parenting concerns are emphasized in this class. You will get to practice being a parent by taking home a "RealCare" computerized baby for a weekend.



INDEPENDENT LIVING (09025) Grade: 9 – 12 ½ credit Fall Semester Online For a student who is looking forward to being on his/her own, taking this course will help you avoid some common problems. Finding and keeping a job you enjoy, handling your money wisely, securing housing, choosing a roommate, making healthy food decisions, and maintaining your personal possessions are topics covered in this class.

CHILD DEVELOPMENT (09026) Grade: 9 – 12 ½ credit Spring Semester Online Popular among students who want to learn more about children, this is a great class for anyone who expects to become a parent or plans to work with children. By bringing a "flourbaby" to daycare for several days, students experience many realistic aspects of parenting a newborn. Students will put into practice what child development experts know will help children be happy, stay safe, and reach their full potential.

FAMILY LIVING (09132) Grade: 9 – 12 ½ credit Spring Semester Online Every one of us is a part of a family and each family is different. Many students will be forming their own new families before too long. This course is about how families function and they have changed over time. The value of healthy families, not only to the individual family members but to society as a whole, is the primary focus of this class. Learn what contributes to a stable and meaningful family.

INFORMATION TECHNOLOGY

INTRODUCTION TO INFORMATION TECHNOLOGY (27101)

Grades: 9, 10, 11, 12 ½ Credit Fall Semester Online
This exploratory level course provides an exposure to careers and issues in Information
Technology. Units prepare students for the industry recognized "Internet and Computing Core
Certification" (IC³). This globally recognized certification provides students with the
foundation of knowledge needed to excel in fields that involve computers and the Internet.
The IC³ Global Standard 3 reflects the most relevant skills for school and business today
including: Computing Fundamentals, Key Applications, and Living Online.

IT ESSENTIALS – PC Hardware & Operating Systems (27219)

Grade: 9, 10, 11, 12 ½ Credit Spring Semester Online
This course presents an in-depth exposure to computer hardware and operating systems.
Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course prepares students for Comp TIA's "A+" certification and/or Comp TIA's "IT Fundamentals" certification exams. Dual Credit is available through BSC – for grades 10-12.

Prerequisite – Introduction to Information Technology 27101



INTRODUCTION TO PROGRAMMING LANGUAGES (27120)

Grade: 10, 11, 12 ½ Credit Fall Semester Online
This course will provide students with a solid foundation for understanding the fundamental concepts of programming languages. Students will be introduced to the Visual Basic Programming language and complete projects utilizing programming concepts, variables,

constants, decision structures and looping structures.

VISUAL BASIC – Programming Essentials (27122)

Grade: 10, 11, 12 ½ Credit Spring Semester Online
This course is an online hands-on course in computer programming using visual basic. The students will develop good problem solving and programming skills while performing several hands-on labs and assignments. Topics covered include; procedures, mathematical and business functions, arrays and structures, color, sound, and graphics, creating classes, using files, sorting and searching. Dual credit is available through BSC. Prerequisite – Introduction to Programming Languages 27120

INTRODUCTION TO NETWORKS I (27266)

Grade: 10, 11, 12 ½ Credit Fall Semester Online
The Cisco Networking Academy CCNA Routing and Switching curriculum (Cisco Discovery I) is
designed for students who are seeking entry-level Information and Communication Technology
(ICT) jobs or plan to pursue more specialized ICT skills. CCNA Routing and Switching provides
comprehensive coverage of networking topics, from fundamentals to advanced applications
and services, with opportunities for hands-on practical experience and career skills
development. The course emphasizes critical thinking, problem solving, collaboration, and the
practical application of skills. Dual Credit is available through BSC.



NETWORKING II - ROUTING AND SWITCHING ESSENTIALS (27267)

Grade: 10, 11, 12 ½ Credit Spring Semester Online

Describes the architecture, components and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single area and multi area OSPF, virtual LANs and inter-VLAN routing in both IPv4 and IPv6 networks. Successful completion of this course prepares students for the Cisco "CCENT certification exam. Dual credit is available through BSC. Prerequisite – Introduction to Networks (27266)

CYBERSECURITY (27280)

Grade: 9, 10, 11, 12 ½ Credit Fall or Spring Semester Online Cybersecurity is becoming a major concern for any business that uses the Internet for any part of their business. This course will introduce students to best practices businesses use to protect their information as well as techniques individuals can use protecting themselves using social media. Identification of cybercrime, security principles, technologies and security principles to defend networks will be covered and build skills and knowledge for students to pursue careers in cybersecurity. Dual credit is available through BSC – for grades 10-12.



MARKETING

Marketing

1 credit: Full Year

Management

1 credit: Full Year

Sports & Entertainment Marketing 1/2 credit



MARKETING (04210) Grade: 10, 11, 12

1 Credit

Full Year

Online

This course develops student understanding and skills in such areas as channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Focus will be on the marketing mix, including products, promotion, pricing, and distribution. Through the use of projects and online simulations, students acquire an understanding and appreciation of marketing activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Students also have the opportunity to participation in DECA through Bismarck Public Schools MRACTC group.

MANAGEMENT (04223) Grade: 11, 12

1 Credit

Full Year

Online

This course furthers student understanding and skills in the various marketing functions leading to decisions in business management. Students coordinate channel management with other marketing activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in the promotional mix, and demonstrate specialized sales processes and techniques. Through the use of projects and online simulations, students acquire an understanding and appreciation of marketing activities. Students are presented problem solving situations for which they apply academic and critical-thinking skills. Students also have the opportunity to participation in DECA through Bismarck Public Schools MRACTC group. **Prerequisite:** Marketing 04210

SPORTS & ENTERTAINMENT MARKETING (04240)

Grade: 10, 11, 12 ½ Credit

Fall or Spring Semester

Online

This course introduces students to marketing occupations in the area of sports and entertainment. Take a look at the exciting and dynamic field of sports and entertainment marketing. One of the largest industries in the world, sport marketing provides a unique way of looking at the business world. This course will focus on the two main aspects of sports and entertainment marketing: 1) The marketing of sports and entertainment, and 2) The marketing of non-sports products and services through sports. You will discover why companies pay to be associated with a team or entertainer; how to develop ticket plans to fill the seats in the arena; why targeting your marketing efforts is so important; and more. Students also have the opportunity to participation in DECA through Bismarck Public Schools MRACTC group.

HEALTH SCIENCE CAREERS

MEDICAL RELATED CAREERS I (07033)

Grade: 10, 11, 12 1 Credit Full Year

Online - or - ITV - 1st period 8:30; or 2nd period - 9:25

Students will explore healthcare principles such as the history of medicine, safety, disease transmission and prevention. Students will also be introduced to various health careers and medical terminology. Three hands-on learning experiences are required and may require travel to alternate locations. Students must successfully complete both semesters of this class including First Aid & CPR/AED Certification for Healthcare Providers. This course and the required certifications are the prerequisite to all other Health Science courses and is offered either on-line or via interactive television.

MEDICAL RELATED CAREERS II (07035)

Grade: 11, 12 1 Credit Full Year Online
Prerequisite: Medical Related Careers I including First Aid & CPR/AED Certification for Healthcare Providers is required.

This course will expand on the knowledge gained in Medical Related Careers I. Students will have the opportunity to explore various medical careers through research, professional guest speakers, college tours and job shadows. The curriculum is designed to enhance student employability skills and professional medical career readiness. Up to date vaccinations, including influenza and TB test are required per facility policies. Students 18 years or older must have a background check. The student is responsible for necessary vaccinations and transportation to clinical sites.



MEDICAL TERMINOLOGY (07036)

Grade: 11, 12 ½ Credit Fall or Spring Semester Online

In this course, students will develop skills necessary for decoding of commonly used medical terms including the meaning of medical suffixes, prefixes and word roots. Students will learn terminology associated with body systems, diseases and disorders of those systems. Students will be expected to use correct spelling and pronunciation of medical terms they have learned and will also learn common medical abbreviations. Students must have reached the minimum age of 16 at the start of the course, and meet all criteria/expectations of the Rasmussen College "Early Honors Program" application prior to the start of the course. **Dual Credit will be provided by Rasmussen College for the successful completion of this course.**



CERTIFIED NURSING ASSISTANT (07032)

Grade: 11, 12 1 Credit Full Year ITV 3rd Period -10:18 Prerequisite: Medical Related Careers I including First Aid & CPR/AED Certification for Healthcare Providers is required.

This course provides classroom instruction and clinical practice to prepare the student for employment as a Certified Nursing Assistant (CNA) in a skilled nursing facility, acute care or home health care setting. Three mandatory hands-on training days are held at the Career Academy. Upon successful completion of clinical hours and course requirements, students are eligible to take the state exam through the North Dakota Board of Nursing. Up to date vaccinations including influenza and a TB test are required per facility policy. Students 18 or older must have a background check. The student is responsible for necessary vaccinations, transportation to clinical sites and the state exam fee. State mandated clinical hours are outside of class time.

EMERGENCY MEDICAL TECHNICIAN (07045)

Grade: 11, 12 Full Year (RRACTC) ITV 6th Period - 1:32 1 Credit Students will complete the national curriculum for Emergency Medical Technician – Basic Course. The course prepares the student to respond to a wide range of emergencies such as heart attacks, auto accidents, and diabetic problems. Students will participate in extensive "hands-on" practical sessions using modern pre-hospital care equipment under the instruction of paramedics from a local paramedic/ambulance service. Upon completion of the course students will be eligible for ND state licensure testing. Partnership and cooperation with a local paramedic/ambulance service is required to enroll in this class

SPORTS MEDICINE –Prevention & Care of Athletic Injuries (07034)

Full Year ITV 4th period - 11:13 **Grade: 11, 12** 1 Credit Prerequisite: Medical Related Careers I including First Aid & CPR/AED Certification for Healthcare Providers is required. (Concurrent enrollment in Med Careers I is allowed) This is an introductory course for students interested in the field of Sports Medicine. Topics discussed include: prevention, recognition and immediate care of athletic injuries; equipment fitting: rehabilitation of athletic injuries and taping and wrapping techniques. Classroom learning is enhanced through clinical education experiences if available at the school. Three hands-on training days at selected sites are included. The student is responsible for transportation to clinical sites. Dual Credit through the University of Mary is available.



MEDICAL RECORDS (07040)

Grades 10 - 12

Fall or Spring Semester (GNWACTC) This course is designed to prepare students for employment as medical records clerks. A wide range of skills including telephone protocol, greeting patients, medical coding, insurance and medical records recording and filing, handling correspondence and scheduling appointments will be covered. Students will gain an understanding of medical terms, clinic and hospital procedures including arrangements for laboratory services, hospital admissions, billing and basic book keeping.

Online

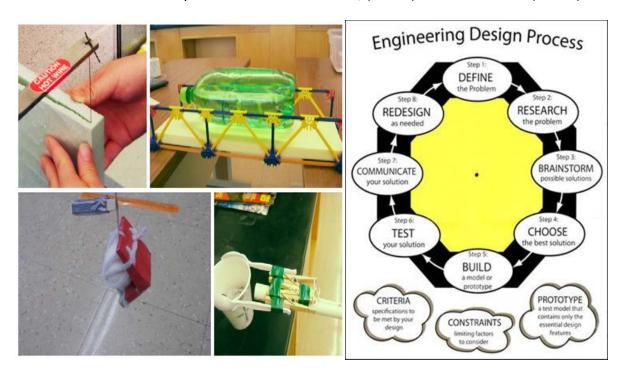
½ credit

TECHNOLOGY & ENGINEERING

STEM SEMINAR I (10610)

GRADES: 9 – 12 ½ CREDIT FALL SEMESTER ONLINE

STEM SEMINAR is a project-based course in which students use Science, Technology, Engineering and Math to solve real world problems. Students will design projects such as bridges, assistive-reach devices, simple motors, parachutes, etc. Students will use common, everyday materials to design prototypes of products that help people in the real world. STEM focuses on the basics of the Engineering Design Process. There are no textbooks, no quizzes, and no tests. All grading will be based on the effort in the creation of a product, participation in discussion, and use of the engineering design process. STEM careers will also be explored. This course can be alternatively coded as ½ science credit, (13150) or ½ math credit (11170)



STEM SEMINAR II (10610)

GRADES: 9 – 12 ½ CREDIT SPRING SEMESTER ONLINE

STEM SEMINAR is a project-based course in which students use Science, Technology, Engineering and Math to solve real world problems. Students will explore concepts such as energy and power, agricultural engineering, computer programming, and medical technology. STEM SEMINAR focuses on the Engineering Design Process. There are no textbooks, no quizzes, and no tests. All grading will be based on the effort in the creation of a product, participation in discussion, and use of the engineering design process. STEM careers will also be explored. This course can be alternatively coded as ½ science credit, (13150) or ½ math credit (11170)

FOUNDATIONS OF TECHNOLOGY I (10094)

GRADES: 9 – 12

½ CREDIT

FALL SEMESTER

ONLINE

Would you prefer to learn by doing? Do you like to build things? In this class, students will complete design challenges while researching better solutions, designing 3D models and actual models, testing and evaluating products. Some possible hand's-on projects include developing and designing a wind turbine, solar car, CO2 dragster, a mousetrap car, and a glider. This course consists of two separate learning units, each nine weeks in length: Energy and Power Technologies and Transportation Technologies. STEM careers and safety will also be explored.

FOUNDATIONS OF TECHNOLOGY II (10094)

GRADES: 9 – 12

½ CREDIT

SPRING SEMESTER ONLINE

In this class, students will complete design challenges while researching better solutions, designing 3D models and actual models, testing and evaluating products. Some possible hand's-on projects include developing and designing a bridge, a survival shelter, a prosthetic arm, a robot and a rocket. This course consists of two separate learning units, each nine weeks in length: Manufacturing Technologies and Construction Technologies. STEM careers and safety will also be explored.







