

Concurrent Enrollment Guide

Snow College



Richfield Campus

800 West 200 South, Richfield, UT 84701

General Information for Concurrent Enrollment (CE) on the Richfield Campus

Students taking courses at Snow College for the first time should complete the [Steps to Success](#) form.

- To register for CE courses, students must have a Badger ID.
- Space is limited. Courses fill on a first come, first served basis.
- Release from a high school does not mean a student is registered for a Snow College course.

Course information is provided for the following programs:

- Allied Health Page 2
- Business Pages 3-5
- Industrial Technology Pages 6-10
- Information Technology Pages 11-12
- Service Technology Pages 13-16
- Transportation Technology Pages 17-24

Costs

- \$5 per credit
- Textbooks
- Course fees (testing, licensure, project materials, third-party resources, etc.)
- Kits and tools
- Uniforms

Textbooks

- Before purchasing, please check with instructors for the best options.
 - Textbooks have many options and a variety of price ranges.
 - Ebooks, subscriptions, inclusive access fees, rentals, and used books may be available at lower prices.
 - Estimated costs are provided. All costs are subject to change.
 - [Campus Textbook Resource](#)

Helpful Links

- [Degrees and Certificates](#)
- [Pathways](#)
- [Richfield Campus Concurrent Enrollment](#)
- [Course Descriptions](#)
- [Registration Website](#)

Use this guide to complement semester schedules for fall, spring, and summer. The schedule will include details such as Course Reference Number (CRN), start date, end date, days offered, times offered, building, and room. A schedule is available through your counselor and the Snow College Registration Website. Students are encouraged to view/print their schedules in [Badger Web](#) before classes begin.

The information provided is subject to change.

Allied Health Department

Department Chair Amber Epling
Phone 893-2228
E-mail amber.epling@snow.edu
Website https://snow.edu/catalog/dept_ahna.html

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AHNA 1000 Nursing Assistant	6	\$30	\$16	\$110	N/A	Participants must be at least 16 years of age to enroll in the CNA class. Preference will be given to 17 years or older.

Description: This course focuses on the application of basic nursing skills needed to prepare students for employment as a nursing assistant in a variety of healthcare settings. The course includes a combination of lecture, skill lab, and clinical experiences to provide students the knowledge and skills needed to pass the state certification test. This course is a prerequisite to the nursing program (LPN) at Snow College.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
NURP 1000 Introduction to Medical Terminology	2	\$10	N/A	\$120	N/A	

Description: Medical Terminology provides the basic knowledge and background of the technical language of medicine. Students learn the origins and definitions of root words, affixes, and abbreviations used in medicine today. This course is recommended for anyone interested in a health or medical field of study. This course is a structured, 15-week, online course which uses a textbook.

Nursing Faculty

Amber Epling, Chair	amber.epling@snow.edu	893-2228
Erica Serrine	erica.serrine@snow.edu	893-2290
April Anderton	april.anderton@snow.edu	283-2288

Allied Health Website

<https://snow.edu/academics/bat/alliedhealth/>

Certified Nursing Assistant

<https://snow.edu/academics/bat/alliedhealth/CNA/index.html>

Business Department

Department Chair Stacey McIff
 E-mail stacey.mciff@snow.edu
 Phone 283-7566
 Website www.snow.edu/academics/bat/business/

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1010 Introduction to Business	3	\$15	N/A	\$70	N/A	

Description: This course is designed to expose students from any area of study to the many functions of modern business. The course shows students how these functions exist in a changing society and the types of decisions which must be made within that environment. The importance of business in modern society is also emphasized throughout the course. In an introductory manner, the course covers topics such as entrepreneurship, economics, management, human resource management, marketing, and accounting.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1020 Computer Technology and Applications	3	\$15	\$5	\$70	N/A	

Description: BUS 1020 is an introductory course covering computer related topics and business computer applications. Students will use Microsoft Office or Office 365 to learn the basics of word processing, spreadsheet, and presentation software and use all applications in a final project. Other technology related topics may include computer concepts, security, ethics, operating systems, email, Internet features, blogs, podcasts, Canvas, and other various technologies and computer applications related to a major or career.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1060 QuickBooks for Small Business	3	\$15	\$5	\$78	N/A	

Description: This course is designed for entrepreneurs or small business owners who have chosen to use QuickBooks software to manage accounting. The course teaches basic accounting concepts and simple automated accounting methods for recording business transactions and maintaining necessary financial reports.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1170 Human Relations in Organizations	3	\$15	N/A	\$100 Inclusive Access Fee	N/A	Qualifies as a Social and Behavioral Science General Education requirement.

Description: This is an introductory course in human relations principles and skills applicable to management effectiveness, career success, and personal relationships. Theories and methods of organizational behavior, professionalism, motivation, team building, conflict resolution, leadership, negotiation, cultural differences, and personal communication are discussed. Practical application and development of skills in these areas are emphasized throughout the course.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1200 Business Careers Seminar	1	\$5	\$25	No Book	N/A	

Description: This course will introduce students to the many rewarding career and educational opportunities in business. Students will explore the Business Department degree and certificate options available at Snow, as well as future educational and career possibilities. The course is designed to help students connect career interests with educational options and requirements. Guest lecturers will include professionals from industry, as well as representatives from four-year business programs at transfer schools.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1210 Personal and Consumer Finance	3	\$15	N/A	\$104 (Inclusive Access Fee)	N/A	This course is cross-listed as HFST 1210 and meets general education requirements for Social and Behavioral Science.

Description: This course will introduce personal and consumer financial concepts and give students basic tools to make sound financial decisions in today's society based on economic trends and research. This is a practical course in personal money management consisting of financial planning including career choices, budgeting, planning for retirement, financing a home and automobile, and understanding consumer credit, taxes, insurance, and investments. Students will use basic math skills as well as read, write, and think critically.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1270 Strategic Selling	3	\$15	N/A	\$120	N/A	Qualifies as an Integrated Exploration (IE) General Education requirement.

Description: BUS 1270 is a pragmatic course that explores the theory and application of sales and customer service, with a focus on relationship building. Students will present multiple sales presentations based on strategies, theories, and best practices learned in class. The culmination of the course is a final sales presentation which provides an opportunity to apply what was learned throughout the term.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1300 Social Media Marketing	3	\$15	N/A	\$79	N/A	

Description: Social Media Marketing will provide participants with a foundation and skillset in the continuously evolving world of social media marketing. These tools and strategies can be immediately applied in the workplace and in life. Students will learn how to create meaningful relationships with customers, colleagues, and employers through the use of social media. The course will provide a solid introduction to online community building and creating value using social media interaction. The effective use of relevant social media tools and platforms will be covered.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 1600 Entrepreneurship Seminars	1	\$5	N/A	No Book	N/A	

Description: In this course students are introduced to the challenges and rewards of entrepreneurship as they learn from the experiences shared by successful guest entrepreneurs. Each guest entrepreneur offers insight regarding starting, operating, and harvesting a successful venture to inform and inspire students.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 2050 Business Law	3	\$15	N/A	Check w/ instructor	N/A	

Description: This course addresses basic principles of business law, including the legal environment of business, forms of business organization, ethics, torts, contracts, agency, and the purchase and sale of goods under the Uniform Commercial Code. This class will provide a basic framework of business law which will help students who either start their own business, work for someone else, or pursue a legal degree.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 2200 Business Communication	3	\$15	N/A	\$200	N/A	

Description: In this course, students learn highly marketable skills in preparing strategic professional business documents and presentations. Students explore a variety of problem-solving approaches typical in a professional environment. This course includes employment document preparation, as well as job interview strategies and techniques. Skills learned in this course are valuable to students in any major.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 2222 Entrepreneurship	3	\$15	N/A	\$50	N/A	

Description: Open to students from any discipline, this introductory course is intended to provide students with a solid foundation in how to turn entrepreneurial ideas into reality. In this class, students can find the knowledge and strategies to take their ideas to the next level, whether they are ready to channel their inspiration into a new venture or take their ideas to a larger organization.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
BUS 2450 Presentations for Business	3	\$15	N/A	\$70	N/A	

Description: This course is designed for students to develop effective oral presentation skills, allowing for increased poise and self-confidence. Students learn marketable skills such as how to integrate presentation and technical skills to create dynamic and professional presentations that may be presented online and/or to live audiences. The course teaches students how to perform audience analysis for planning a well-received presentation with a clear purpose. Students will be given multiple opportunities to plan, develop, deliver, and evaluate presentations. Strategies for overcoming presentation anxiety and relaxation techniques will be explored.

Business Faculty

Stacey McIff	stacey.mciff@snow.edu	283-7566
LaFaun Barnhurst	lafaun.barnhurst@snow.edu	893-2240
Cozette Roberts	cozette.roberts@snow.edu	893-2271



INTRODUCING THE SNOW COLLEGE BUSINESS ACADEMY AT RICHFIELD

Earn an Associate of Science Business degree over two years

- Take classes with a select group of students
- Enjoy exclusive events like business tours and guest speakers
- Courses taught on the Richfield campus
- Special scholarship opportunities available just for Business Academy participants
- Direct transfer to any Utah business school

Business Academy for Incoming College Freshman

<https://www.snow.edu/academics/bat/business/scba/>

Business Department Website

<https://www.snow.edu/academics/bat/business/>

Industrial Technology Department

Department Chair Ken Avery
 E-mail ken.avery@snow.edu
 Phone 893-2250
 Website <https://www.snow.edu/academics/bat/industrialtech/>

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CMP 1000 Composite Basics	3	\$15	\$0	\$30	N/A	Students need Safety Glasses

Description: This course covers introductory topics in general composite manufacturing including composite equipment, materials, methods, and processes for proper and quality assured composite production. (formerly MANF 1400)

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CMP 1100 Mold Preparation and Tooling	3	\$15	\$0	\$30	N/A	Students need Safety Glasses

Description: This course covers the basic procedures and processes for mold preparation, composite materials tooling, and mold release agents.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CMP 1200 Composite Core, Prepreg, and Matrix Materials	3	\$15	\$0	\$30	N/A	Students need Safety Glasses

Description: This course covers the basic procedures and processes for manufacturing composite core, prepreg, and matrix material composite products.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CMP 1300 Vacuum Bag Processes	3	\$15	\$0	\$30	N/A	Students need Safety Glasses

Description: This course covers the basic procedures and processes for performing single-sided vacuum bagging. The course also covers safety precautions and techniques to prevent common vacuum bag problems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1050 Industrial Safety	1	\$5	\$0	\$0	N/A	Students need Safety Glasses

Description: This course teaches the rights and responsibilities of workers in the workplace to ensure industrial safety. Students will gain valuable knowledge about how they can protect themselves and others in industrial settings. Students will explore a wide range of topics, including laws, guidelines, behaviors, and equipment related to industrial safety.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1100 Industrial Mechanics I	3	\$15	\$0	\$0	N/A	Students need Safety Glasses

Description: This course is designed to introduce the basics of industrial mechanical systems. This course begins a series of four courses designed to prepare students to understand and recognize mechanical systems they will encounter on the job. Students will learn relevant industrial skills, including mechanical drive systems, key fasteners, power transmission systems, v-belt drives, chain drives, spur gear drives and multiple shaft drives. Students will learn basic measuring for industrial applications using basic measurement tools to include digital calipers, micrometers and dial calipers.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1200 Industrial Mechanics II	3	\$15	\$0	\$0	Prerequisites INDM 1100	Students need Safety Glasses

Description: The course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear axis drives, clutches and brakes. In addition, this course teaches how to setup, operate and apply laser shaft alignment to a variety of industrial applications. Topics include heavy-duty v-belt drives, v-belt selection and maintenance, synchronous belt drives, lubrication concepts, precision shaft alignment, couplings and heavy-duty chain drives. Students will also learn the basics of vibration analysis used to determine when to perform maintenance of power transmission components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1300 Industrial Mechanics III	3	\$15	\$0	\$0	Prerequisites INDM 1200	Students need Safety Glasses

Description: This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize bearing mechanics, selection and maintenance. Topics include plain bearings, ball bearings, roller bearings, anti-friction bearing selection, gaskets and seals and gear drive selection. In addition, this course teaches how to set up, operate and apply laser shaft alignment systems to a variety of industrial applications. Topics include laser alignment systems, rough alignment, soft foot correction, alignment analysis and operation.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1400 Industrial Mechanics IV	3	\$15	\$0	\$0	Prerequisites INDM 1100, 1200, and 1300	Students need Safety Glasses

Description: This course teaches linear axis drives, clutches, brakes, piping, fittings and valves. Students will learn relevant industrial skills including identifying, sizing, selecting, installation, operation, performing analysis, design, troubleshooting and maintenance as well as installing a variety of types of piping, fittings and valves including iron pipe, steel tubing, hydraulic hose, plastic pipe, copper tubing, globe valves, gate valves, check valves, and Sloan valves.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1500 Industrial Pneumatics	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course teaches the fundamentals of pneumatic systems using industrial, agricultural and mobile applications. Students will learn skills in the following areas: safety, basic pneumatic systems design, installation, operation, and performance analysis. Student will also be skilled in more advanced concepts of air logic, ways to decelerate a pneumatic cylinder, how to prevent condensation in a pneumatic circuit, DCV applications, and maintenance.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1600 Industrial Electrical	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course teaches industry-relevant fundamentals of AC/DC electrical systems used for power and control in industrial, commercial, agricultural, and residential applications as well as commercial and residential applications including single phase AC motors and three-phase AC electric motors, DC electric motors, and DC generators. Students will learn skills in how to operate, install, analyze performance, select electric machines for various applications, design, and troubleshoot basic AC/DC electrical circuits for various applications.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1620 Industrial Electronics	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course teaches electronic devices control and power machines used in industries throughout the world, from manufacturing and transportation to energy and construction. Students will learn to operate, adjust, and troubleshoot electronic components, circuits, and systems used in these vital machine applications.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1800 Industrial Hydraulics	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course introduces industry-relevant hydraulic skills while showing the fundamentals of the hydraulic principles, hydraulic motors and actuators, and hydraulic formulas such as calculating theoretical pump flow rate. Students learning skills will include: safety, how to operate, install, troubleshoot, analyze performance, and design hydraulic systems. Students will also be skilled in more advanced hydraulics.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1820 Industrial Mechanics IV	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course teaches linear axis drives, clutches, brakes, piping, fittings and valves. Students will learn relevant industrial skills including identifying, sizing, selecting, installation, operation, performing analysis, design, troubleshooting and maintenance as well as installing a variety of types of piping, fittings and valves including iron pipe, steel tubing, hydraulic hose, plastic pipe, copper tubing, globe valves, gate valves, check valves, and Sloan valves.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
INDM 1840 Industrial Pumps	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course teaches a comprehensive set of industry-relevant skills including how to operate, install, maintain, troubleshoot, analyze performance, and select centrifugal pumps as well as system design. Students will learn skills related to centrifugal pumps, which are used in almost every industry to transfer non-hydraulic fluids of various types from one place to another.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MANF 1060 Industrial Print Reading	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course is an introduction to reading and interpreting working drawings and prints for industrial processes and associated trades. Students will receive basic information on blueprints and written documents commonly found in industrial environments. The course is designed to allow the student to develop an understanding of the use of prints and an ability to read and interpret prints found in industrial settings.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MANF 1500 Quality Control	3	\$15	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course will provide students with a greater understanding of the complexities of quality improvement efforts and will give the students real-life situations through each application. Emphasis is placed on the practical application of quality principles, interpretations, understanding, and concepts throughout the problem-solving process. Students will have a full understanding of basic concepts as they build knowledge toward more advanced applications in quality control.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MANF 2332 Mechanical CAD Drafting	4	\$20	\$0	Check w/ instructor	N/A	Students need Safety Glasses

Description: The course will introduce the student to the 3D modeling process and 3D parametric modeling. It will present a process-based approach to mechanical drafting using solid modeling commands, options, and techniques. Students will experience the power of solid modeling with a parametric modeling program, as they complete parts, assemblies and working drawings.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MTT 1000 Survey of Machine Tool	2	\$10	\$0	\$0	N/A	Students need Safety Glasses

Description: This is an introductory course for those interested in the world of manufacturing. It emphasizes the machine tool field and includes hands-on activities with metal cutting lathes and milling machines.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MTT 1110 Intro to Precision Machining	3	\$15	\$0	Check w/ instructor	Corequisites MTT 1125	Students need Safety Glasses

Description: This course is for first semester students. It teaches the manufacturing of metal parts using machine tool operations. Students learn the theoretical operations of the engine lathe, drill press, pedestal grinder, and vertical milling machine. The course includes lecture, discussion, and demonstrations.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MTT 1125 Intro to Precision Machining Lab	5	\$25	\$0	Check w/ instructor	Corequisites MTT 1110	Students need Safety Glasses

Description: This is a lab course for first semester students. It teaches the manufacturing of metal parts using machine tool operations and covers hands-on operations of the engine lathe, drill press, pedestal grinder, and vertical milling machine. Students practice all common operations done on a metal cutting lathe and are introduced to the basic operation of the vertical milling machine. The course includes demonstrations, practical applications, and labs. Those that complete the course should have entry skills for the machine tool industry.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
MTT 1210 Intermediate Precision Machining	3	\$15	\$0	\$116	Prerequisites MTT 1125, MTT 1110 Corequisites MTT 1225	Students need Safety Glasses

Description: This course is for second semester students. It covers advanced machining principles dealing with threads, gear cutting, computer numeric control (CNC), basic metallurgy tool building and design, and includes operation theory of band machines, shapers, grinders, and turret lathes. Students improve skills on engine lathes and vertical milling machines.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
WELD 1012 Oxy-acetylene Welding	2	\$10	\$10	\$180 (Good for 2 Years)	N/A	Students need Safety Glasses

Description: This is a course for various trades and community members. This beginning course covers theory and practice of oxy-acetylene fusion welding of sheet steel, including welding, soldering, and braze welding of ferrous and non-ferrous metal. Local industries, farmers, and ranchers use oxy-acetylene equipment to make repairs and fabricate parts.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
WELD 1015 Cutting Processes	2	\$10	\$10	N/A	N/A	Students need Safety Glasses

Description: This is a course designed for various trades and community members. This course covers theory and practice of oxy-acetylene, carbon arc, oxygen lance, plasma processes and the cutting of ferrous and non-ferrous metal. Local construction, fabrication shops and mining use these processes to make repairs and fabricate parts.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
WELD 1020 Shielded Metal Arc Welding	4	\$20	\$10	Check w/ instructor	N/A	Students need Safety Glasses

Description: This course is designed for welding technology majors, various trades, and community members. The course is for beginning students interested in learning basic arc welding techniques, theory, and practices, including types of machines, electrodes, and their application. Students study types of joints, expansion and contraction of metals, care and use of tools and equipment, and welding safety.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
WELD 1220 Intro to GMAW	2	\$10	\$10	\$0	N/A	Students need Safety Glasses

Description: This is a course designed for welding technology majors to cover theory and practical hands-on experience with semi-automatic wire-fed machines. Emphasis is on safety and maintenance of equipment, basic fundamentals of each process, mode of transfers associated with gas metal arc welding (GMAW) processes, electrode selection, gas selection, proper regulator and flow meter calibration. Joint design and equipment troubleshooting will also be discussed.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
WELD 1420 Intro to GTAW	2	\$10	\$10	\$0	N/A	Students need Safety Glasses

Description: This course is for welding technology majors. It covers basic fundamentals of gas tungsten arc welding (GTAW) processes.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
WELD 2020 Advanced ARC Welding	4	\$20	\$10	\$0	Prerequisites WELD 1020	Students need Safety Glasses

Description: This course will cover preventative maintenance of welding equipment, proper service and troubleshooting of portable engine driven welders and electric powered welding machines. Welding practice is continued with emphasis on multiple pass welding and V groove welding. Qualification tests are offered for horizontal, vertical, and overhead positions throughout the course.

Industrial Technologies Faculty

Ken Avery	ken.avery@snow.edu	893-2225
Chad Avery	chad.avery@snow.edu	893-2257
Alan Hart	alan.hart@snow.edu	893-2250
Colton Nay	colton.nay@snow.edu	893-2233
Alan Palmer	alan.palmer@snow.edu	893-2220
Morgan White	morgan.white@snow.edu	893-2241

Industrial Technologies Website

<https://www.snow.edu/academics/bat/industrialtech/>

Note: Some courses may only be offered every other year.

Information Technology Department

Department Chair Terrence Coltharp
 E-mail terrence.coltharp@snow.edu
 Phone 893-2265
 Website <https://www.snow.edu/academics/bat/cis/>

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CIS 1125 IT Essentials	3	\$15	\$10	\$0	N/A	This course prepares students for the CompTIA A+ certification exam.

Description: This course discusses the history, role, and structure of computer architecture and operating systems needed by computers and provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level computer technicians. The curriculum covers the fundamentals of computer hardware and software as well as advanced concepts in security, networking, and computer technician responsibilities. Lab exercises include assembling a computer, laptop, and troubleshooting problems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CIS 1140 Network Essentials	3	\$15	\$0	\$0	N/A	

Description: In this course, students will learn the basic concepts and prerequisites of network computing, including hardware, software, topologies, and the Open Systems Interface (OSI) reference model. Additionally, students will install, configure, and troubleshoot computer networking hardware and software.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CIS 1200 Introduction to Networks	3	\$15	\$10	\$0	N/A	

Description: This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and network operations. Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CIS 1205 Routing and Switching Essentials	3	\$15	\$10	\$0	N/A	

Description: This course 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, including topics in troubleshooting routers, switches, RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CIS 1310 Network Security Fundamentals	3	\$15	\$0	\$0	N/A	

Description: This course will introduce students to the fundamentals of network security concepts. Students will become familiar with network attackers and their attacks, security basics, network and web security, cryptography, operational security, and policies and procedures related to network security.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
CIS 1620 Linux Fundamentals	3	\$15	\$10	\$0	Prerequisites CIS 1125	

Description: This course will introduce students to the fundamentals of the Linux OS and Linux networking concepts. Students will become familiar with Linux installation, usage, file system, management of GUI interface and networking processes, troubleshooting, and security.

CIS Faculty

Terrence Coltharp, Chair	terrence.coltharp@snow.edu	893-2265
Mike Medley	michael.medley@snow.edu	893-2264

Information Technology Website

<https://www.snow.edu/academics/bat/cis/>

Service Technology Department

Department Chair Teri Mason
 E-mail teri.mason@snow.edu
 Phone 893-2261
 Website www.snow.edu/academics/bat/cosmetology/

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 1000 Basic Cosmetology Theory	4	\$20	\$900 Kit	N/A	Corequisites COSB 1005, COSB 1015, and COSB 1100	Students must be accepted into the Cosmetology/Barbering program to take this course.

Description: This theory course presents basic cosmetology practices, demonstrations of technical procedures, practical application of cosmetology skills, and identifies the responsibilities of the cosmetologist. Critical thinking skills will also be developed. Students will demonstrate competency through written tests and skills pass-off working on mannequins. This course prepares students for working with the public in the salon lab. This course is part of a required series to prepare students to take the National Interstate Council of State Boards of Cosmetology Licensure Examination (NIC test).

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 1005 Basic Cosmetology Lab	5	\$25	\$0	N/A	Corequisites COSB 1000, COSB 1015, and COSB 1100

Description: This lab course with the Basic Barbering Lab course are the main lab components for the COSB 1000 series. Lab instruction and practice are an integral part of this program. Practice and lab experiences include shampooing, scalp and hair treatments, manicuring, pedicuring, artificial nails, haircutting, hairstyling, chemical texture, facials, makeup application, hair coloring, hair lightening, shaving, waxing, and hair extension applications.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 1015 Basic Barbering Lab	4	\$20	\$0	N/A	Corequisites COSB 1000, COSB 1005, and COSB 1100

Description: This lab course with the Basic Cosmetology Lab course are the main lab components for the COSB 1000 series. Lab instruction and practice are an integral part of this program. This course covers practical experience in the area of shampooing and scalp treatments, manicures and facials, all types of men's haircuts, hair and beard design, care and styling of hairpieces, and straight razor shaving with an emphasis on all barber specific services.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 1100 Basic Barbering Theory	3	\$15	\$0	N/A	Corequisites COSB 1000, COSB 1005, and COSB 1015

Description: This course presents barbering theory for the following subjects—history of barbering, barber implements, tools and equipment, shaving and facial design, men's styling, and haircutting.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 1200 Cosmetology/Barbering Sciences and Procedures	3	\$15	N/A	N/A	Prerequisites COSB 1000, COSB 1100, COSB 1005, and COSB 1015; COSB 1205 and COSB 1215 (both of which can be taken concurrently)

Description: This course presents cosmetology/barbering theory for the following subjects—history of cosmetology, infection control, general anatomy and physiology, skin structure and growth, nail structure and growth, properties of hair and scalp, basics of chemistry and an introduction to the State Laws of Cosmetology/Barbering.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 1205 Intermediate Cosmetology Lab	6	\$30	N/A	N/A	Prerequisites COSB 1000, COSB 1005, COSB 1015, and COSB 1100; and COSB 1200 and COSB 1215 (both of which can be taken concurrently)

Description: Students completing the COSB 1000 series will take this course in preparation to work on clients. Lab instruction and practice are an integral part of this program. This course offers hands-on experience in manicuring, pedicuring, massage, facials, facial makeup, removal of unwanted hair by tweezing and waxing, hair extension application, shampooing, draping, finger waving, roller sets, thermal curling, braiding, haircoloring, hair lightening, chemical texture services, care of wigs, and haircutting.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 1215 Intermediate Barbering Lab	4	\$20	\$50	N/A	Prerequisites COSB 1000, COSB 1005, COSB 1015, and COSB 1100; and COSB 1200 and COSB 1205 (both of which can be taken concurrently). This course requires a nonrefundable lab fee.

Description: Lab instruction and practice are an integral part of this program. This lab course provides practical experience with general hair care, draping, shampooing, scalp treatment, men specific manicuring, pedicuring, facials, haircutting, straight razor shaving, beard and mustache trimming. A student will also gain lab experience in chemical texture services, esthetic procedures and make-up application, braiding, hair extension applications, hairstyling including, finger waving, roller sets and thermal curling, haircoloring, and hair lightening. Students have the opportunity to work on clients in a salon setting.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 1519 Cosmetology/Barbering Lab	6	\$30	\$0	N/A	Prerequisites with Instructor approval	This course is repeatable for credit.

Description: Lab instruction and practice are an integral part of this program. This course covers principles and practices of manicuring, pedicuring, application of nail enhancements, facials, facial makeup, removal of unwanted hair by tweezing and waxing, hair extension application, shampooing, draping, finger waving, roller sets, thermal curling, braiding, haircoloring, hair lightening, chemical relaxing, care of wigs, hairstyling, permanent waving, and haircutting.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 1810 Theory of Nail Technology	4	\$20	\$500 Nail Kit	N/A	Corequisites COSB 1811	

Description: This course covers principles and concepts of the nail technology profession, including manicuring, pedicuring, sanitation, disorders and diseases of the skin and nails, body chemistry, product safety, related anatomy and physiology, methods of artificial nail applications, problem solving, professional ethics, business management, and state laws.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 1811 Nail Technology Lab	6	\$30	\$50	N/A	Corequisites COSB 1810	A required lab fee includes a one-time rental of a state board testing kit. This fee is non-refundable.

Description: A student taking this course and COSB 1810 will be ready to license and go to work in one semester. The Nail Technology program can be taken alone or as part of the Cosmetology/Barbering program. Lab instruction and practice are an integral part of this program. Practice and lab experiences include client consultation; manicuring; pedicuring; application of nail tips, wraps, gel and acrylic enhancements; polishing techniques; nail art; and salon management.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 1910 Professional Development I	1	\$5	\$0	N/A	N/A	

Description: This course is designed to prepare the student for the job market, learning skills in time management, goal setting, ethics and professional dress. The importance of working and communicating with others, healthy habits and a positive attitude are discussed.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 1920 Professional Development II	1	\$5	\$0	N/A	Corequisites COSB 1910	

Description: This course in connection with COSB 1910 will prepare the student for the job market, learning skills in employment opportunities, public speaking, job application, employment portfolios, focusing on mentoring, money management and leadership skills.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 2300 Disciplines and Principles of Cosmetology/Barbering	1.5	\$7.50	\$0	N/A	Prerequisites COSB 1000, COSB 1005, COSB 1015, COSB 1100, COSB 1200, COSB 1205, COSB 1215; and COSB 2300, COSB 2315, COSB 2505 (these three can be taken concurrently).

Description: This theory course covers in-depth the disciplines and principles of the following subjects; Barbering history and opportunities, straight razor shaving and haircutting techniques, basics of electricity, electrotherapy and light therapy, principles of make-up, hair design, braiding, hair extensions and the care of wigs, all aspects of haircoloring, skin and nail diseases and disorders, safety and infection control.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 2305 Advanced Cosmetology Lab	6	\$30	\$100	N/A	Prerequisites COSB 1000, COSB 1005, COSB 1015, COSB 1100, COSB 1200, COSB 1205, COSB 1215; and COSB 2300, COSB 2315, COSB 2505 (these three can be taken concurrently). This course requires a nonrefundable lab fee.

Description: In this course, students learn highly marketable skills in preparing for licensure and working in the profession of cosmetology. Students are challenged to serve in the community, to achieve senior student status, and becoming mentors to their fellow peers. Lab instruction and practice are an integral part of this program. This course provides in-depth practical experience in learning and achieving advanced techniques in all areas essential to becoming a successful cosmetologist/barber. Students perform services in a salon setting. This course has a service learning component.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs
COSB 2315 Advanced Barbering Lab	4	\$20	\$0	N/A	Prerequisites COSB 1000 COSB 1005, COSB 1015, COSB 1100, COSB 1200, COSB 1205, and COSB 1215; and COSB 2300, COSB 2305, and COSB 2505 (the three of these can be taken concurrently).

Description: Barbering is an exciting component in the Cosmetology/Barbering program. Imagine days from the old west, where a gentlemen could get a straight razor shave. This is just one of the services a student will learn in this lab course. This course provides in-depth practical experience in learning and achieving advanced techniques in all areas essential to becoming a successful cosmetologist/barber. Students perform services in a salon setting. This course has a service learning component.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 2505 Cosmetology/Barbering Capstone	2	\$10	\$0	N/A	Prerequisites Must have Instructor approval	

Description: Lab instruction and practice are an essential part of this program. This capstone course allows students to complete the last 1-100 hours of the mandated 1600 clock hours by the State of Utah. Students are prepared to take the National Interstate Council of State Boards of Cosmetology Licensure Examination (NIC test) and apply for licensure.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
COSB 2519 Advanced Cosmetology/Barbering Lab	6	\$30	\$0	N/A	Prerequisites Must have Instructor approval	This course is repeatable for credit.

Description: Lab instruction and practice are an integral part of this program. This course covers practical experience with shampooing, scalp treatments, manicuring, pedicuring, nail enhancements, haircutting, hairstyling, permanent waving, facials, massaging, esthetic procedures, hair extension applications, care and styling of wigs, haircoloring, chemical relaxing, hair lightening, retail sales, appointment booking, and phone skills. Students perform services in a salon setting.

Service Technology Faculty

Cosmetology/Barbering

Teri Mason, Chair	teri.mason@snow.edu	893-2261
Chad Price	chad.price@snow.edu	893-2217
Amanda Wood	amanda.wood@snow.edu	893-2208

Nail Technology

Sheri Thompson	sheri.thompson@snow.edu	893-2224
Devanae Robinson	devanaerobinson@snow.edu	893-2224

Website

<https://www.snow.edu/academics/bat/cosmetology/>

Application Deadlines

Fall	May 1
Spring	October 1
Summer	April 1

Schedule

Theory Class	7:45 - 9:00
Morning Lab	9:00-12:30
Afternoon Lab	1:30 - 4:45

Cosmetology/Barbering

*Kit Fee: \$900
Includes tools, supplies, and textbook

Nail Technology

*Kit Fee: \$500
Includes tools, supplies, and textbook

High School students need to be available 7:45 - 4:45 Monday thru Thursday and 7:45 - 11:45 Friday for their first semester. The schedule is flexible after they complete their first semester.

After completion of the first semester, the second semester would be best to schedule 7:45 - 11:45. A/B schedule can be accommodated. However, if possible, everyday/every morning is preferred.

On-line enrollment is NOT available for this program. You must enroll in person at the Student Success office after being accepted into the program.

Transportation Department

Department Chair Brent Reese
 E-mail brent.reese@snow.edu
 Phone 893-2215
 Website https://www.snow.edu/academics/bat/trans_dept.html

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1000 Automotive Basics and Safety	1	\$5	\$0	\$0	N/A	

Description: This course provides proper knowledge and practices in safety to help establish working habits that would reflect industry standards and result in a safe working environment. This course is for Automotive and Diesel Technology students.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1001 Automotive Technology I	5	\$25	\$0	\$0	N/A	

Description: This course covers careers in the Automotive Industry, ASE Certification, tools, fuels and fuel systems, lubrication systems, engines, engine classification, displacement, cooling systems, belts, intake, and exhaust systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1002 Automotive Technology II	5	\$25	\$0	\$0	N/A	

Description: This course covers the principles of suspension and steering, wheels and tires, electrical systems, starting systems, charging systems, lighting and wiring, and ignition systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1101 Automotive Engine Repair	2	\$10	\$0	Check w/ instructor	Corequisite: AUTO 1105	Students need Safety Glasses

Description: This course teaches linear axis drives, clutches, brakes, piping, fittings and valves. Students will learn relevant industrial skills including identifying, sizing, selecting, installation, operation, performing analysis, design, troubleshooting and maintenance as well as installing a variety of types of piping, fittings and valves including iron pipe, steel tubing, hydraulic hose, plastic pipe, copper tubing, globe valves, gate valves, check valves, and Sloan valves.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1105 Automotive Engine Repair Lab	1	\$5	\$0	N/A	Corequisite: AUTO 1101	Students need Safety Glasses

Description: This hands-on lab covers the construction and operational principles of basic gasoline engine systems and major overhaul of the complete automotive engine.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1201 Automatic Transmissions	2	\$10	\$0	Check w/ instructor	Corequisite: AUTO 1205	Students need Safety Glasses

Description: This course covers theory, operation, diagnosis, and overhaul procedures of automotive automatic transmissions and trans-axes, including planetary gearing, valve bodies, computerized transmission controls, torque converters, and torque converter lock-up.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1205 Automatic Transmissions Lab	3	\$15	\$0	N/A	Corequisite: AUTO 1205	Students need Safety Glasses

Description: The hands-on lab covers theory, operation, diagnosis, and overhaul procedures of automotive automatic transmissions and trans-axes, including planetary gearing, valve bodies, computerized transmission controls, torque converters, and torque converter lock-up.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1301 Automotive Manual Transmissions/Power Trains	2	\$10	\$0	Check w/ instructor	Corequisite: AUTO 1305	Students need Safety Glasses

Description: This course covers theory, operation, diagnosis, maintenance, and overhaul of the clutch, standard transmission, standard trans-axes, drive lines, differentials, front-wheel drive units, and four-wheel drive components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1305 Automotive Manual Transmissions/Power Trains Lab	3	\$15	\$0	N/A	Corequisite: AUTO 1301	Students need Safety Glasses

Description: This hands-on lab covers theory, operation, diagnosis, maintenance, and overhaul of the clutch, standard transmission, standard trans-axes, drive lines, differentials, front wheel drive units, and four-wheel drive components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1401 Automotive Suspension and Steering	2	\$10	\$0	Check w/ instructor	Corequisite: AUTO 1405	Students need Safety Glasses

Description: This course covers repair and adjustment suspension and steering systems. Students study steering gears, rack and pinion, conventional and MacPherson struts, alignment angles, and alignment with a computerized four-wheel alignment fixture.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1405 Automotive Suspension and Steering Lab	2	\$10	\$0	N/A	Corequisite: AUTO 1401	Students need Safety Glasses

Description: The hands-on lab covers the repair and adjustment of suspension and steering systems. Students study steering gears, rack and pinion, conventional and MacPherson struts, alignment angles, and alignment with a computerized four-wheel alignment fixture.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1501 Automotive Brake Systems	2	\$10	\$0	Check w/ instructor	Corequisite: AUTO 1505	Students need Safety Glasses

Description: This course covers principles, repair, and adjustment of the automotive brake system and includes hydraulic theory, diagnosis, and service of brake systems. Students study drums, disks, power units, and Antilock Braking System (ABS) brakes.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1505 Automotive Brake Systems Lab	2	\$10	\$0	N/A	Corequisite: AUTO 1501	Students need Safety Glasses

Description: This hands-on lab covers the principles, repair, and adjustment of the automotive brake system and includes hydraulic theory, diagnosis, and service of brake systems. Students study drums, disks, power units, and Anti-Lock Braking System (ABS) brakes.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1601 Automotive Basic Electronics	4	\$20	N/A	Check w/ instructor	Corequisites AUTO 1605	

Description: This course covers the principles and laws that govern electrical circuits, including Ohm's and Kirchhoff's Laws. Students will also gain understanding of the use of meters, wiring diagrams, wiring repair, conductors, semiconductors, PN junctions, diodes, transistors, multiplexing, computers and sensors.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1605 Automotive Basic Electronics Lab	1	\$5	N/A	N/A	Corequisites AUTO 1601	

Description: In this hands-on lab experience, students will use the principles and laws that govern electrical circuits, including Ohm's and Kirchhoff's Laws. Students will also gain understanding of the use of meters, wiring diagrams, wiring repair, conductors, semiconductors, PN junctions, diodes, transistors, multiplexing, computers and sensors.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1801 Automotive Fuel, Emissions, and Ignition Systems	3	\$15	N/A	Subscription	Corequisites AUTO 1805	

Description: Students will have an understanding of the theory, operation, diagnosis, and repair of fuel, emission control systems, and ignition systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 1805 Automotive Fuel, Emissions, and Ignition Systems Lab	2	\$10	N/A	N/A	Corequisites AUTO 1801	

Description: This course gives students the hands-on lab experience required for Auto 1801. Students will have an understanding of the theory, operation, diagnosis, and repair of fuel, emission control systems, and ignition systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 2601 Automotive Electrical and Electronics II	4	\$20	\$0	Check w/ instructor	Corequisites AUTO 2605	Students need Safety Glasses

Description: This course covers the theory, operation, and diagnosis of starting systems, charging systems, lighting systems, instrumentation, and automotive accessories.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 2605 Automotive Electrical and Electronics II Lab	2	\$10	\$0	\$0	Corequisites AUTO 2601	Students need Safety Glasses

Description: In this hands-on practical lab, students learn the, operation and diagnosis of starting and charging systems, lighting systems, instrumentation, communication networks, accessories, hybrid vehicles, safety and restraint systems, radio frequency and infotainment systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 2701 Automotive Heating and Air Conditioning	2	\$10	\$0	Check w/ instructor	Corequisites AUTO 2705	Students need Safety Glasses

Description: Students will cover the principles, operation, and servicing of automotive air conditioning and heating systems and their components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 2705 Automotive Heating and Air Conditioning Lab	2	\$10	\$0	\$0	Corequisites AUTO 2701	Students need Safety Glasses

Description: In this hands-on lab experience, students will cover the principles, operation, and servicing of automotive air conditioning and heating systems and their components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 2801 Automotive Engine Performance/Computerized Engine Controls	3	\$15	N/A	Subscription	Corequisites AUTO 2805	

Description: Students will cover diagnosis, adjustment, and repair of the systems which affects engine performance. Emphasis will be placed on computerized engine control systems of various makes. Use of diagnostic equipment is heavily emphasized.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
AUTO 2805 Automotive Engine Performance/Computerized Engine Controls Lab	2	\$10	N/A	N/A	Corequisites AUTO 2801	

Description: In this hands-on lab experience, students will cover diagnosis, adjustment, and repair of the systems which affects engine performance. Emphasis will be placed on computerized engine control systems of various makes. Use of diagnostic equipment is heavily emphasized.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1001 Intro to Diesel Technology I	5	\$25	\$0	\$0	N/A	

Description: This course covers careers in the Diesel and Transportation Industry, ASE Certification, fasteners, tools, preventative maintenance, lubrication systems, engines, and fuel systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1002 Intro to Diesel Technology II	5	\$25	\$0	\$0	N/A	

Description: This course covers electricity and electrical systems, batteries, starting systems, charging systems, steering and suspension systems, brakes, wheels, and tires.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1101 Diesel Engine Repair	2	\$10	N/A	Subscription	Corequisites DMT 1105	

Description: This course will instruct students on the basic operation, parts, and overhaul procedures of diesel engines. The course provides theory on four-stroke diesel engines, their design, structure, operation, maintenance, repair, and overhaul. Students will receive detailed instruction on engine lubrication, air, cooling, and exhaust systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1105 Diesel Engine Repair Lab	2	\$10	N/A	N/A	Corequisites DMT 1101	

Description: This course gives students the hands-on lab experience for DMT 1101. This course will instruct students on the basic operation, parts, and overhaul procedures of diesel engines. The course provides theory on four-stroke diesel engines, their design, structure, operation, maintenance, repair, and overhaul. Students will receive detailed instruction on engine lubrication, air, cooling, and exhaust systems.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1301 Transmissions and Drivetrains	3	\$15	\$0	Check w/ instructor	Corequisites DMT 1305	Students need Safety Glasses

Description: This course provides instruction on theory and operation of torque converters, powershift, automatic transmissions, manual transmissions, double and triple countershaft transmissions, differentials, clutches, transfer cases, axles, drivetrain components, drivelines, and electronic control devices. This course emphasizes troubleshooting, repair procedures, use of service manuals, and schematic diagrams.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1305 Transmissions and Drivetrains Lab	3	\$15	\$0	N/A	Corequisites DMT 1301	Students need Safety Glasses

Description: This hands-on lab experience, provides instruction on theory and operation of torque converters, powershift, automatic transmissions, manual transmissions, double and triple countershaft transmissions, differentials, clutches, transfer cases, axles, drivetrain components, drivelines, and electronic control devices. This course emphasizes troubleshooting, repair procedures, use of service manuals, and schematic diagrams.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1401 Diesel Suspension and Steering	2	\$10	\$0	Check w/ instructor	Corequisites DMT 1405	Students need Safety Glasses

Description: This course will instruct students on the theory, basic operation, parts, and adjustment of suspension and steering systems. The course provides study of steering gears, rack and pinion, conventional shocks, alignment angles, and alignment with a computerized four-wheel alignment fixture.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1405 Diesel Suspension and Steering Lab	2	\$10	\$0	N/A	Corequisites DMT 1401	Students need Safety Glasses

Description: This course gives students the hands-on lab experience for DMT 1401. This course covers the repair and adjustment of suspension and steering systems. Students study steering gears, rack and pinion, kingpins, conventional shocks, alignment angles, and alignment with a computerized four-wheel alignment fixture.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1501 Diesel Brakes	2	\$10	\$0	Check w/ instructor	Corequisites DMT 1505	Students need Safety Glasses

Description: This course will instruct students on the basic operation, repair, and adjustment of the diesel truck and trailer brake systems and includes hydraulic theory, air brake theory, diagnosis, and service of brake systems. The course provides theory on drums, disks, power units, and Antilock Braking System (ABS) brakes.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1505 Diesel Brakes Lab	2	\$10	\$0	\$0	Corequisites DMT 1501	Students need Safety Glasses

Description: This hands-on lab experience, covers principles, repair, and adjustment of the diesel truck and trailer brake systems and includes hydraulic theory, air brake theory, diagnosis, and service of brake systems. Students study drums, disks, power units, and Antilock Braking System (ABS) brakes.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1801 Industrial Mechanics IV	2	\$10	\$0	Check w/ instructor	Corequisites DMT 1805	Students need Safety Glasses

Description: This course teaches linear axis drives, clutches, brakes, piping, fittings and valves. Students will learn relevant industrial skills including identifying, sizing, selecting, installation, operation, performing analysis, design, troubleshooting and maintenance as well as installing a variety of types of piping, fittings and valves including iron pipe, steel tubing, hydraulic hose, plastic pipe, copper tubing, globe valves, gate valves, check valves, and Sloan valves.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 1805 Industrial Mechanics IV	2	\$10	\$0	N/A	Corequisites DMT 1801	Students need Safety Glasses

Description: This course teaches linear axis drives, clutches, brakes, piping, fittings and valves. Students will learn relevant industrial skills including identifying, sizing, selecting, installation, operation, performing analysis, design, troubleshooting and maintenance as well as installing a variety of types of piping, fittings and valves including iron pipe, steel tubing, hydraulic hose, plastic pipe, copper tubing, globe valves, gate valves, check valves, and Sloan valves.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 2311 Hydraulics and Pneumatics	2	\$10	\$0	Subscription	Corequisites DMT 2315	

Description: This course covers theory, formulas, design, maintenance, and repair of hydraulic and pneumatic operated systems, including rams, pistons, apply devices, motors, etc.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 2315 Hydraulics and Pneumatics lab	2	\$10	\$0	N/A	Corequisites DMT 2311	

Description: This course covers theory, formulas, design, maintenance, and repair of hydraulic and pneumatic operated systems, including rams, pistons, apply devices, motors, etc.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 2701 Heating and Air Conditioning	2	\$10	\$0	Check w/ instructor	Corequisites DMT 2705	Students need Safety Glasses

Description: Students will cover the principles, operation, and servicing of automotive, diesel, and transportation air conditioning and heating systems and their components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 2705 Heating and Air Conditioning Lab	2	\$10	\$0	\$0	Corequisites DMT 2701	Students need Safety Glasses

Description: In this hands-on lab experience, students learn the principles, operation, and servicing of automotive, diesel, and transportation air conditioning and heating systems and their components.

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 2801 Emissions/Control devices	2	\$10	\$0	Check w/ instructor	Corequisites DMT 2805	Students need Safety Glasses

Description: This course teaches Diesel systems that control/regulate the engines output emissions, emission controls, maintenance procedures, repair, diagnosis, and safety. Students will be taught the emission standards and regulations of the federal government and administered by organizations such as the Environmental Protection Agency (EPA) and Mine Safety and Health Administration (MSHA).

Course Name	Credits	CE Fee	Course Fee	Textbook	Prereqs/Coreqs	Notes
DMT 2805 Emissions/Control devices Lab	2	\$10	\$0	\$0	Corequisites DMT 2801	Students need Safety Glasses

Description: This hands-on lab teaches Diesel systems that control/regulate the engines output emissions, emission controls, maintenance procedures, repair, diagnosis, and safety. Students will be taught the emission standards and regulations of the federal government and administered by organizations such as the Environmental Protection Agency (EPA) and Mine Safety and Health Administration (MSHA).

Transportation Department Faculty

Brent Reese, Chair	brent.reese@snow.edu	893-2215
Bob Gary	bob.gary@snow.edu	893-2230
Justin Morgan	justin.morgan@snow.edu	893-2218

Transportation Technologies Website

https://www.snow.edu/academics/bat/trans_dept.html

Commercial Driver's License (CDL) - Must be 18 years of age to enroll.

<https://www.snow.edu/academics/bat/cdl/index.html>

Drug screen and DOT physical are required one week before class begins.

Note: Some courses may only be offered every other year.

General Education

SNOW COLLEGE

ASSOCIATE OF SCIENCE GENERAL EDUCATION REQUIREMENTS

COURSE	CREDITS
Foundations	3
American Institutions	3-6
English 1 and English 2	6
Quantitative Literacy	3-4
Fine Arts	3
Social Science	3
Humanities	3
Natural Sciences*	
Life Science	3
Physical Science	3
Lab	1
	7
Integrated Exploration**	3
TOTAL	34-39

Required Core Required Knowledge Areas

* 3 credits Physical Science and 3 credits Life Science, plus lab or additional class/credits to complete a minimum of 7 credits.
 ** An additional GE course from any knowledge area OR any approved Integrated Exploration course.

ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS

COURSE	CREDITS
Foundations	3
American Institutions	3-6
English 1 and English 2	6
Quantitative Literacy	3-4
Fine Arts	3
Social Science	3
Humanities	3
Natural Sciences*	
Life Science	3
Physical Science	3
Lab	1
	7
Foreign Language (1020 or higher)	5
TOTAL	36-40

Required Core Required Knowledge Areas

* 3 credits Physical Science and 3 credits Life Science, plus lab or additional class/credits to complete a minimum of 7 credits.



BADGERTRACKS

FOR CONCURRENT ENROLLMENT SENIORS

If you are a Snow College Concurrent Enrollment senior planning to be a New Freshman at Snow after graduation, you can take advantage of **BADGERTRACKS**. The advantages of participating in the BadgerTracks program are:

1. You do not need to pay an application fee.
2. You will still be able to take classes as concurrent enrollment until you have graduated high school.
3. Since you are already a Snow College student, you do not need to reapply. Just answer three quick questions to let Snow know your plans, even if you plan to defer your enrollment up to two years.
4. You will be able to enroll in on-campus classes at the same time as returning students.
5. You may be eligible for Concurrent Enrollment scholarships.

You can also track your progress toward your academic goal by using DegreeWorks. Log into **BadgerWeb** and look for DegreeWorks in the Student tab.

BADGERTRACKS Scholarship Requirements:

- 1 Students who have completed at least 12 credit hours of Snow College Concurrent Enrollment work by the time they graduate with a 3.0 GPA or higher in their Snow courses may benefit from receiving a **\$500 per semester scholarship (approximately one-third of a semester's tuition)**. No application is needed for this scholarship to qualify as long as you meet the requirements and funding is available;
- 2 Students must retain a 3.0 GPA to continue to receive the waiver throughout their experience at Snow College, as long as they are making steady progress and taking a full course load (minimum 15 credits per semester);
- 3 Students who have taken a mix of IVC Concurrent Enrollment from Snow College and Snow sponsored face-to-face courses, including on the Richfield or Ephraim campus, would be eligible for the waiver as well.

BadgerTracks Scholarship Website

<https://www.snow.edu/academics/concurrent/badgertracks.html>