Suring High School

Course Descriptions
and
Career and College Planning Guide

2017-2018

TO THE STUDENT

This booklet is designed to give you increased responsibility for your high school program and allow your parents to share that experience with you. Any further questions or problems regarding your schedule will be worked out with the guidance counselor or high school principal. The administration and guidance department reserve the right to change student schedules, if necessary.

This booklet includes information on what courses are required and what courses are elective at your grade level, how often they meet, their credit value, and what prerequisites are needed.

Some of our courses are a year in length and many will be a semester in length as indicated on the course selection sheet and the course descriptions. You are to select enough courses for both the fall and spring semesters, and include some alternate courses, as well. Faculty and administration will give you further assistance.

Preparing well in high school will increase the choice of college majors and career opportunities available to you. College and Technical - bound students should develop competencies in reading, writing, speaking, listening, mathematics, reasoning and organized study.

General recommendations for a sound academic program in high school include:

1) Four years of English; 2) Three years of Mathematics; 3) Three years of Science; 4) Three years of Social Studies; 5) Two years of a foreign language.

This is your planning booklet; use it to plan what you want to get out of your high school. Talk to your parents, your teachers and your guidance counselor. If you have made a career choice, talk to someone in that area.

In the back of this booklet you will find useful tools to assist you in tracking your progress through High School and planning your future career or college track. These documents are included for you to look over and utilize as you need. If you need assistance narrowing down your area of focus or have any other academic or career planning questions, please see your guidance counselor.

No person may be denied admission to any public school or be denied participation in, be denied the benefits of or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program or activity because of the person's sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation, physical, mental, emotional and learning disability.

This policy also prohibits discrimination under related federal statues, including Title VI of the Civil Rights Act of 1964 (race, national origin, color), Title IX of the Education Amendments of 1972, (sex), and Section 504 of the Rehabilitation Act of 1973 (handicap) and Americans with Disabilities Act of 1990 (disability).

UNIVERSITY OF WISCONSIN SYSTEM REQUIREMENTS

The stronger the college preparatory classes you complete in high school, the more likely you will be to succeed in college. All UW campuses require a minimum of 17 college preparatory classes in high school. Note that these are minimums and some campuses require more. The following are the 17 minimum credits required.

4 English Credits: Composition, literature, and rhetoric. Several campuses require at least 3 credits in composition and literature. Most regular and advanced classes are accepted.

3 Mathematics Credits: Algebra, Geometry and other mathematics courses with algebra or geometry pre-requisites. Courses are typically not accepted if they are taught prior to Algebra.

3 Science Credits: Biology, Chemistry and Physics. Other courses often accepted include Earth Science and Physical Science.

3 Social Science Credits: Theoretical study of culture, history, political science, economics, and human behavior and societies (such as Psychology and Sociology).

4 Elective Credits: Electives may be chosen from English, mathematics, natural science or social science, foreign language, fine arts, computer science, and other academic areas. A minimum of two credits of a single foreign language is required for admission to UW Madison and may help meet graduation requirements at other campuses.

If you have questions about the acceptability of specific high school courses, talk with your school counselor and contact the admissions office at the campus you hope to attend.

WISCONSIN PRIVATE COLLEGES REQUIREMENTS

As with the UW System schools, there is some variance of admission requirements between campuses. Specific admission requirements are available in Student Services.

Minimum course requirements for admission:

English	4 years (4.0 credits)
Mathematics	3-4 years (3.0 – 4.0 credits)
Science	3-4 years (3.0 – 4.0 credits)
Social Studies	3-4 years (3.0 – 4.0 credits)
Foreign Language	2-4 years (2.0 – 4.0 credits)

Other requirements include:

- ACT or SAT scores
- Strong academic record with preference given to students taking challenging courses

As with the UW System schools, the private colleges make their admission decisions based primarily on the high school record, with emphasis placed on grades earned within the context of courses taken. Rigor, especially during 11th and 12th grade, is important.

WISCONSIN TECHNICAL COLLEGE REQUIREMENTS

Each program has specific requirements for admission. Please see the guidance counselor if you need more information about the requirements of a specific program. The following courses are listed as a general guideline for admission.

If you are applying to NWTC in a Health-related program (Radiography, Nursing, Dental Hygienist, DMS, etc.) you need to apply in June of your Junior year or August of your Senior year of high school. Please visit Student Services for more information.

***Many NWTC programs have pre-application requirements. Your best bet is to look at the latest NWTC catalog for more information on this.

YOUTH OPTIONS

Wisconsin's Youth Options program allows public high school juniors and seniors who meet certain requirements to take postsecondary courses at a UW institution, a Wisconsin technical college, one of the state's participating private nonprofit institutions of higher education, or tribally-controlled colleges. Approved courses count toward high school graduation and college credit.

The program opens the door to greater learning opportunities for motivated students considering a technical career, wishing to begin college early, or preparing themselves to enter the workforce immediately after high school graduation.

Under Youth Options, a student does not pay for a college course if the school board determines the course qualifies for high school credit and is not comparable to a course already offered in the school district. If approved by the school board, the student can receive both high school and college credit upon successful completion of the course. A student who successfully completes their high school graduation requirements earns a high school diploma regardless of whether the requirements were met while attending a high school or college. Students are given information to share with their parents regarding Youth Options each September. Youth Options has strict deadlines established by law that must be followed. More information can be obtained from guidance.

CLASSES AND CREDT

All students will be required to carry seven periods of classes per semester.

GRADUATION REQUIREMENTS

The graduation requirements for all classes will be a minimum of 25 credits. The 25 credits must include all specific course requirements as established.

Act 55 Wisconsin Civics Exam Requirement: Beginning with the class of 2017, all students at Suring High School will be required to successfully complete a Civics exam prior to graduation. The test will be comprised of 100 questions identical to the questions on the US Immigration test.

CREDIT DISTRIBUTION

1 Semester	X 1 Hour Daily =	½ Credit
1 Semester	X 2 Hours Daily =	1 Credit
1 Semester	X 1 Hour Weekly =	1/10 Credit

Each student must earn a minimum of the following:

English	4 Credits
Social Studies	3 Credits (.5 in Economics or Personal Finance
Science	3 Credits
Math	3 Credits
P.E.	1.5 Credits (1 semester per year for 3 years)
Health	.5 Credits
Electives	10 Credits
Total	**25 Credits (minimum)**

FRESHMEN REQUIRED COURSES

Required Courses	Course Offered	Credit
Team Sports 9	One Semester	.50
English/Speech 9	Full Year	1.0
Physical Science or General Science	Full Year	1.0
US History	Full Year	1.0
Pre-Algebra, Algebra, Alt. Algebra, or Geometry	Full Year	1.0

SOPHOMORE REQUIRED COURSES

Required Courses	Course Offered	Credit
Team Sports 10	One Semester	.50
Mental Health	One Semester	.50
English 10	Full Year	1.0
Biology	Full Year	1.0
Pre-Algebra, Algebra, Alt. Algebra, Geometry or Algebra II	Full Year	1.0

JUNIOR REQUIRED COURSES

Required Courses	Course Offered	Credit
English 11	Full Year	1.0
Physical Education	One Semester	.50

American Government	One Semester	.50
Economics/Personal Finance	One Semester	.50
Math	Full Year	1.0

SENIOR REQUIRED COURSES

Required Courses	**Course Offered**	**Credit**
English	Full Year	1.0

Suring High School Course Listing

College-minded students give attention to * marked subjects

Codes: All = Open to freshmen, sophomores, juniors, & seniors

9 = Open to freshmen 10 = Open to sophomores

11 = Open to juniors 12 = Open to seniors

R = Required for Graduation

Dept.	Course Name	Grade	Prerequisites	Credit
Agriculture – pages 6-8				
700-13	Agricultural Leadership	All		.50
700-03	Animal Science I	All		.50
700-14	Animal Science II	All	Animal Science I	.50
700-15	Food Science I	All		.50
700-16	Food Science II	All	Food Science I	50
700-18	Horticultural Science	All		.50
700-05	Intro to Forestry	All		.50
700-06	Intro to Wildlife	All		.50
700-17	Landscaping	All		.50
700-01	Plants, Animals and You	All		.50
700-12	Plant Science	All		.50
700-08	Small Animals	All		.50
Art – pages 8,9				
550-06	Arts & Crafts	All		.50
550-05	Ceramics I	All		.50
550-12	Ceramics II	All	Ceramics I	.50
550-04	Drawing I	All		.50
550-13	Drawing II	All	Drawing I	.50
550-03	Painting I	All		.50
550-14	Painting II	All	Painting I	50
550-15	Printmaking	All		.50
Business – pages 9-11				
250-19	*Accounting I (gr.10 w/permission)	11,12	General Business I	1.0
250-22	*Business/Personal Law I	11, 12	General Business I	.50
250-23	Business Law II	11,12	Business Law I	.50
250-11	Business Publications	All	Permission of Instructor	.50 or 1.0

Dept	Course Name	Grade	Prerequisites	Credit
250-16	Career Exploration	All		.50
250-18	*Computer Applications I	All		.50
250-21	Computer Applications II	All	Computer App. I	.50
250-15	Emerging Technologies	All		.50
250-13	General Business	All		.50
250-26	Intro to Marketing	All		.50
250-14	Personal Finance	11,12		.50
English – page 11,12				
100-09	*College Prep Writing	11,12	English 10	.50
100-01	*English 9	9	R	1.0
100-02	*English 10	10	R	1.0
100-03	*English 11	11	English 10	1.0
100-14	*English 12	12	English 11	1.0
100-17	NWTC English Composition I	11,12	Instructor Recommendation	.50
100-18	NWTC Oral/Interpersonal	11,12	Instructor Recommendation	.50
Foreign Language – page 12				
150-01	*German I	All		1.0
150-03	*German II	10,11,12	German I	1.0
150-05	*German III	11, 12	German II	1.0
Health and Physical Education – pages 12,13				
400-05	Lifetime Sports I	All		.50
400-04	Mental Health	All	R	.50
400-01	Team Sports 9/10	All	R	.50
400-06	Weight Training	All		.50
Mathematics – pages 13,14				
200-06	Pre-Algebra	All		1.0
200-01	*Algebra I	All		1.0
200-03	*Algebra II & Trig	10,11,12	Algebra I & Geometry	1.0
200-13	Alternative Algebra A	All	Pre-Algebra	1.0
200-14	Alternative Algebra B	All	Algebra A	1.0
200-02	*Geometry	All	Algebra I	1.0
200-04	*Pre-Calculus	11,12	Algebra II	1.0
200-23	NWTC College Math	11,12	Pre-Algebra	1.0
Music – page 14				
500-01	Concert Band	All		1.0
500-02	Concert Choir	All		.20
Science – pages 14,15				
300-01	General Science	All		1.0
300-02	*Physical Science	All	In Pre-Algebra/Alg	1.0
300-03	*Biology	10	R	1.0
300-04	*Anatomy/Physiology	11,12	Biology	1.0
300-05	*Chemistry	11,12	Alg. I & Phy. Sci.	1.0

Dept.	Course Name	Grade	Prerequisites	Credit
300-06	*AP Chemistry	12	Chemistry	1.0
300-07	*Physics	12	Algebra II(C or better)	1.0
300-09	Environmental Science	11,12		0.5
300-15	Science and Technology	10,11,12		0.5
Social Studies – pages 15-17				
350-05	American Government	11,12	R	.50
350-18	*Current Events	12		.50
350-08	*Economics	11, 12		.50
350-27	*History of the United States	12	Full Year-St. Norbert Credit	1.0
350-25	*History through Film	12		.50
350-28	*Leadership Theory and Practice	12	Full Year-St. Norbert Credit	1.0
350-10	Social Problems	11,12		.50
350-02	U.S. History	All	R	1.0
350-10	World Studies I	All		.50
350-19	World Studies II	All		.50
Technology Education – pages 17,18				
750-02	Architectural Drafting	10,11,12		1.0
750-03	Construction I	10,11,12	Material & Processes	1.0
750-04	Construction II	11,12	Construction I	.50
750-08	Material and Processes	All		.50
750-07	Manufacturing Systems	10,11,12	Material & Processes	.50
750-11	Small Engines I	All		.50
750-12	Small Engines II	All	Small Engines I	.50
750-13	Welding I	All		50
750-14	Welding II	All	Welding I	.50
Miscellaneous – page 18				
450-02	Teacher Aide	10,11,12	By approval	.50
450-01	Tutoring	11,12	By approval	.50
450-03	Work Study	11,12	Career Exploration	.50

Triton Course Offerings, Graduation Planning Guide and Career Clusters pages 19-40

INDIVIDUAL COURSE DESCRIPTIONS

Course No.	*Course Name*	*Department*	*Credits*
700-13	***Agricultural Leadership***	***Agriculture***	**0.50**

One-Semester Course

This course helps students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities.

Course No.	*Course Name*	*Department*	*Credits*
700-03	***Animal Science I***	***Agriculture***	**0.50**

A One-Semester Course

This course is open to students who have completed Intro to Veterinary Skills (exceptions need teacher approval) and is a course designed to emphasize the importance of animal well-being. The class has discussions and labs on methods of handling, care, and management of animals. The class focuses on large animals like horses, goats, and cattle, etc. Students will learn breeds, anatomy, health, behavior, and care of large animals.

700-14 Animal Science II Agriculture 0.50

A One-Semester Course

This class will allow students to explore topics of interest related to animal systems. This is a largely independent study course and will serve as an opportunity for the student to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.

700-15 Food Science I Agriculture 0.50

A One-Semester Course

This class will impart the knowledge and skills needed to produce and manufacture food products for the consumer market. This course will focus on food products while covering a variety of topics, such as quality selection and preservation, equipment care and sanitation, government regulations, marketing, consumer trends, and product research and development.

700-16 Food Science II Agriculture 0.50

A One-Semester Course

This class will allow you to take the information you learned in Food Science I and apply it. This will be largely a lab-based course. Students will get the chance to think, talk, and write like a food scientist while covering the course material.

700-18 Horticultural Science Agriculture 0.50

A One-Semester Course

This course exposes students to the art of and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including principles of plant science, greenhouse and nursery operations, soils and growing media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior landscaping, irrigation systems, weed and pest control, and floral design.

700-05 Intro to Forestry Agriculture **0.50**

A One-Semester Course

Learn about our Wisconsin forests and what is part of a forest, why forests are important, how we maintain, manage and use the forest. You will learn what your connection to forestry is and the careers available. You will identify trees common to our area, learn to measure and cruise a forest to determine how much lumber could be harvested. You will also get ready to travel to the school forest.

700-06 Intro to Wildlife Agriculture **0.50**

A One-Semester Course

Do you enjoy the outdoors, hunting or fishing? This course will further expose you to the wildlife common in North America from wild cats, dogs, birds of prey, fish, and more. Learn to identify certain animals from their color, tracks or even calls. You will make a plaster cast of a fish to paint or tie a fish fly. Be prepared to go outside for labs.

700-17 Landscaping Agriculture 0.50

A One-Semester Course

In this class you will learn a little bit about plant science, soil and media mixtures, plant identification and landscape design. This course will emphasize applying this knowledge to the design, establishment, and maintenance of lawns, parks, open space and similar environments. The class will practice landscaping throughout the community.

Course No.	*Course Name*	*Department*	*Credits*
700-01	***Plants, Animals and You***	***Agriculture***	**1.00**

A Full Year Course

Do you eat? So you wear clothes? This course sticks to the basics of agriculture and its importance to every human on earth for basic needs and luxuries. Suring is an agricultural community and all your life you will be purchasing agricultural products. You will learn about: leadership, careers, plants, animals, food science, soil science, ag business technologies, plants and flowers, and much more.

700-12 Plant Science ***Agriculture*** ***0.50***
A One-Semester Course

Do you enjoy working with crops? Love planting flowers? Either way this class is for you. We will talk about plants from a scientific point of view discussing plant classification and anatomy to properly manage a crop. You will get a chance to explore a variety of plant science careers including agronomy, florists and landscaping.

700-08 Small Animals ***Agriculture*** **0 .50**
A One-Semester Course

Small animals or the pet industry is a rapidly growing industry as evidenced by the increased number of veterinarians and pet care businesses. This is a course that will teach students the skills and knowledge to care for domestic animals such as dogs, cats, gerbils, rabbits, and exotic pets in their proper environment. This class will also cover basic anatomy and physiology, care, behavior, breeding, body systems, genetics, training, and management of the various animals you might own at home.

550-06 Arts & Crafts ***Art Education*** **0.50**
A One-Semester Course
FEE REQUIRED

Students will learn the appropriate techniques to construct a variety of craft projects. They will apply an understanding of the elements and principles of design to create a well-crafted finished project. Some areas of study may include: paper crafts, weaving/stitchery, leather bottles, cell-u-clay sculptures, dough art, dream catchers, god's eyes, tile mosaics, foil jewelry, holiday crafts, and much more.

550-05 Ceramics I ***Art Education*** **0.50**
A One-Semester Course
FEE REQUIRED

Students will experience various methods of clay construction and design through a variety of techniques. Some of the topics that will be covered include, pinch pots, slab building, coil method, and drape molds, as well as wheel thrown pottery.

550-12 Ceramics II ***Art Education*** ***0.50***
A One-Semester Course
FEE REQUIRED

There will be a short review of the techniques learned in Ceramics. Students will then continue with higher level projects in pinch, slab and coil methods as well as additional work done on the wheel.

550-04 Drawing I ***Art Education*** **0.50**
A One-Semester Course
FEE REQUIRED

Students will begin the course with various exercises drawn from the book, "Drawing on the Right Side of the Brain" by Betty Edwards. If you think you can't draw….you're wrong! Come and be surprised! After these exercises are accomplished, areas of study will include: nature, still-life, human form, self-portrait, animals, fantasy, perspective and even…….your shoes! The types of media used will include: drawing and shading pencils, colored pencil, ink, markers, oil and chalk pastels.

Course No.	*Course Name*	*Department*	*Credits*
550-13	***Drawing II***	***Art Education***	***0.50***

A One-Semester Course
A FEE IS REQUIRED

This course will be designed for that student who just can't stop drawing! If your sketchpad is always under your arm, then this is the class for you! Techniques and media used in Drawing I will continue to be explored and expanded upon. Other areas to be explored may be manga, pen and ink, and 2 pt. perspective.

550-03 Painting I ***Art Education*** **0.50**
A One-Semester Course
A FEE REQUIRED

After a review of the color wheel and the properties of color, the student will begin with various color mixing exercises. Using tempera, watercolor, acrylic and India ink as well as different paper types and canvas panels, students will create paintings in a wide variety of styles – (cave painting to pop art) and subjects – (from a leaf to a unicorn). Students will be painting outside, using nature for inspiration. In all media students will gain an understanding of materials used, techniques, and methods.

550-14 Painting II ***Art Education*** ***0.50***
A One-Semester Course
FEE REQUIRED

Students will expand on the techniques learned in Painting I and use them to be even more bold and creative in their subject matter choices. They will increase their knowledge of media techniques in watercolor, tempera and acrylic with the introduction of oil painting on canvas. Different art styles and artists throughout history will also continue to be explored.

550-15 Printmaking ***Art Education*** ***0.50***
A One-Semester Course
FEE REQUIRED

Have you ever wished that you had more than one copy of a great drawing that you did? The different printmaking techniques learned here will allow you to make many copies of your original piece, with each copy having original elements at the same time. You will learn relief printing like linoleum cuts and woodcuts. Intaglio printing is a type of etching or engraving that can be done on Plexiglas or even a Styrofoam meat or bakery tray. Mono-printing will be included as well as stencil and string printing. If there is time, we will attempt silk-screening, so you can design your very own unique t-shirt!

250-19 Accounting I ***Business*** **1.00**
A Full Year Course

This course is open to juniors and seniors who have had or currently have General Business I. Sophomores may take this course with the permission of the business education teachers. This course is recommended to all students who are planning to pursue a career in business. Some of the material taught in this course will include: setting up of an accounting cycle, purchasing merchandise, selling merchandise, taxes, making and receiving payments from creditors and customers, keeping a good record of a business checking account, and determining whether a business is making a profit or a loss each month. This course is articulated with NWTC.

250-22 Business/Personal Law I ***Business*** **0.50**
A One-Semester Course

This course is open to juniors and seniors who have had General Business. This course is for the individual who wishes to get a better understanding of the business and criminal law methods used in our country. Units of study will include: the court system in our country, constitutional rights, laws, ethics, and contracts.

Course No.	*Course Name*	*Department*	*Credits*
250-23	***Business Law II***	***Business***	**0.50**

A One-Semester Course

This course is open to juniors and seniors who have completed Business Law I. It is a continuation of Business Law I. Units of study will include: credit laws, employment contracts, insurance, real and personal property, contracts, and legal family matters.

***250-11 Business Publications Business 0*.50**
A One-Semester or Full Year Course

Students taking this course will be involved in the creation, operation, and completion of several school projects. These include: yearbook, slideshow for graduation, concessions, and student newsletters. Class members must take direction well and be able to follow through and complete projects independently and on time. This course can be taken for one semester or for the entire year. The class is open to all high school students.

250-16 Career Exploration Business **0.50**
A One-Semester Course

At some point, everyone will apply for a job. This course is designed to help students obtain the skills necessary to successfully search for a job and be a successful employee. It is open to all high school students. Units covered include: applying for a job, interviewing for a job, working on the job, career planning, and skills needed to be successful on the job.

250-18 Computer Applications I Business **0.50**
A One-Semester Course

This is the first in a three-course series working with computer software applications. This course is open to all high school students. This course will provide an introduction to basic word processing (currently using Word) and spreadsheet (currently using Excel) applications. The features that will be discussed are those that all users should be able to complete. Word processing features presented will include: formatting basics, using program automatic features (AutoCorrect, AutoFormat, AutoText, AutoComplete, automatic spell check and grammar check), working with graphics, and mail merge. Spreadsheet features presented will include: entering and formatting data, editing cells, entering formulas, basic sorting and filtering of data, and creating charts.

250-21 Computer Applications II Business **0.50**
A One-Semester Course

This is the second in a three-course series working with computer software applications. This course is open to all high school students who have completed Computer Applications I. The course will concentrate on advanced features of word processing (currently using Word) and spreadsheets (currently using Excel). Word processing features discussed will include: mail merge, sorting and calculating, working with graphics and text boxes, working with multi-page documents, creating forms, and working with columns. Spreadsheet features will include: charts and graphs, lists, filtering data, PivotTables and Pivot Charts, importing and exporting data, and working with templates.

250-15 Emerging Technologies Business **0.50**
A One-Semester

This course is open to all high school students. This course will focus on the latest technologies and their impact on education. Possible topics that will be covered will include: Web 2.0 tools, tablets/other media in the classroom, online learning, and responsible uses of social networking.

250-13 General Business Business **0.50**
A One-Semester Course

This course is open to all high school students. This course is a prerequisite to other business classes and gives students the opportunity to decide if they wish to continue on in the area of business. Some of the items covered in this course are: role of business in our economic system, business operations, consumerism, and small business management.

Course No.	*Course Name*	*Department*	*Credits*
250-26	***Intro to Marketing***	***Business***	***0.50***

A One-Semester Course

Marketing activities are found in every type of business! In this course, students will explore the foundation of marketing, specifically focusing on the *marketing mix* – place, price, product, promotion, and people. The course is designed to be hands-on and project-based, with students completing both individual and group assignments. Units covered will include: marketing basics, pricing, promotion, sales, market research, and product.

250-14 ***Personal Finance*** ***Social Studies*** **0.50**

A One-Semester Course

This course is meant to inform you of your various financial responsibilities. It will help you investigate many important areas of interest that will enhance your financial security. You will have a better understanding of your own wants, needs, values, and how these affect personal financial decisions. Areas of emphasis will include: money management, financial security, credit management, resource management, and risk management.

100-09 ***College Prep Writing*** ***English*** **0.50**

A One-Semester Course

This course is designed to develop an understanding of post-secondary writing requirements as well as refine and expand existing writing skills in response to varied, college writing formats. Students should be recommended for enrollment by the English department.

100-0 ***English 9*** ***English*** **1.00**

A Full Year Course

English 9 is designed to help advance the student's written and oral communication skills, as well as reading comprehension skills. Time will be spent on basic mechanics units (punctuation, capitalization, subject-verb agreement, etc.) letter writing, and creative writing. Various speaking exercises will be incorporated throughout the course to improve the student's verbal communication. Literature will also be studied, including vocabulary and comprehension skills.

100-02 ***English 10*** ***English*** **1.00**

A Full Year Course

English 10 will combine an introduction to various types of classic and contemporary literature including fiction, non-fiction, drama, short stories, novels and poetry with a 10th grade level of study in composition, grammar, spelling, punctuation, speech and listening skills. Emphasis will be placed on analyzing literature, comparing different types of literature and expressing ideas through writing. Students will improve their skills in reading comprehension, writing outlines, writing 5 paragraph essay literary analysis papers, essay questions, verbal response and group discussion.

100-03 ***English 11*** ***English*** **1.00**

A Full Year Course

English 11 follows the course English 10 and includes coursework that will emphasize **writing, reading**, **listening, and oral presentation** skills as outlined in the Language Arts Standards and Benchmarks. Students will study American Literature fiction, nonfiction, poetry, drama, short story, and novels.

100-14 ***English 12*** ***English*** ***0.50***

English 12 follows English 11 and includes coursework that will emphasize **writing, reading**, **listening, and oral presentation** skills as outlined in the ELA Common Core. Students will study American Literature fiction, nonfiction, poetry, drama, short stories, and novels as well as informational text to support ELA Common Core skills.

100-17 ***NWTC English Composition I*** ***English*** ***0.50 SHS credit provided a grade of D or higher is earned***

A One-Semester Course **3.00** ***NWTC credits provided a grade of C or higher is earned***

Learners develop knowledge/skills in planning, organizing, writing, editing. Students will also analyze audience/purpose, use elements of research, format documents using standard guidelines, and develop critical reading skills.

Course No.	*Course Name*	*Department*	*Credits*
100-18	***NWTC Oral/Interpersonal***	***English***	***0.50 SHS credit provided a grade of D or higher is earned***
A One-Semester Course			**3.00** ***NWTC credits provided a grade of C or higher is earned***

The communication process, perception and self-concept, language, listening, nonverbal communication interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation.

150-0 German I ***Foreign Language*** **1.00**
A Full Year Course

German I is an elementary, basic course intended to provide the basics of German language use and grammar. The four fold aim of this course is to enable you to understand proper written and oral language, to express yourself with it, to read the foreign language and employ the language in written form within the range of your ability.

50-03 German II ***Foreign Language*** **1.00**
A Full Year Course

This is a continuation of German I with emphasis on advanced grammar and refinement in the areas of reading, translation, speaking, and writing of the language. Creative use of the language is encouraged through a variety of topics. This course continues the use of the basic text, but only to the extent that it aids our grammar and syntax of the language needed in the study of advanced work in other books and literary works.

150-05 German III ***Foreign Language*** **1.00**
A Full Year Course

This course is a continuation of German II with emphasis on advanced grammar and refinement in areas of reading, translation, speaking, and writing of the language.

400-05 Lifetime Sports I ***Health & Physical Ed*** **0.50**
A One-Semester Course

The purpose of this course is to familiarize the students with activities in which he/she will be able to compete successfully during early adulthood, middle age, and during the golden years. Activities include units in Physical Fitness/Wellness, Archery, Volleyball, Biking and Bowling. With more leisure time in today's society, it is important for the student to have a good background in various physical activities. This course may only be taken once – either as a Junior or Senior.

400-04 Mental Health ***Health & Physical Ed.*** **0.50**
A One-Semester Course

This course is designed to give the student a picture of the mental and emotional side of their health. The content of this course includes units on: behavior, personality, emotions, values clarification, and the concept of future shock. The student finds out what influences in their environment makes them react the way they do and will also discuss how they can modify these elements of influence in a positive manner.

400-01 Team Sports 9/10 ***Health & Physical Ed.*** **0.50**
A One-Semester Course

This course is designed to familiarize the student with the basic skills and techniques, used in various team sports. Team sports include soccer, football (flag), volleyball, basketball, speedball, mass activities, flicker ball, softball, and track and field. The students will also be involved in a physical fitness program consisting of a physical fitness test at the beginning of the school year and tests of aerobic fitness in the 2nd or 4th quarter. The purpose of this testing program is to measure the student's physical development and progress.

400-06 Weight Training ***Health & Physical Ed*** **0.50**
A One-Semester Course

This course will be devoted to those individuals who are interested in making their bodies bigger, faster, and stronger. Accurate records of each individual's progress will be kept per lift cycle.

Course No.	*Course Name*	*Department*	*Credits*
200-06	***Pre-Algebra 9***	***Mathematics Ed.***	**1.00**

A Full Year Course

This course is designed to provide guidance for a full year of practice in the fundamentals of arithmetic while basic abstractions of beginning algebra are introduced and practiced. Emphasis is placed on reading numbers written in numerical form and to translating numbers in numerical form to make form; conceptualization of areas, values, and perimeter; word problems; and on the fundamental problems of mathematics which deal with fractional parts of a number. Simple concepts of algebra are introduced such as variable, integral exponents and roots, and a comprehensive and complete review and continued practice of the skill of arithmetic.

200-01 Algebra I ***Mathematics Ed.*** **1.00**

A Full Year Course

Algebra gives a general review of arithmetic along with the application of arithmetic to algebraic techniques. The course also integrates the study of algebra and geometry. The topics of logic, statistics, probability, and BASIC are introduced as well. The goals of the course are to develop proficiency with mathematical skills, to expand understanding of mathematical concepts, to improve logical thinking, and to promote success.

200-03 Algebra II & Trig. ***Mathematics Ed.*** **1.00**

A Full Year Course

Algebra II and trigonometry is recommended for anyone planning to enter college or technical school. The first semester is an in-depth study of polynomial functions, with an introduction to exponential and logarithmic functions. The second semester is an in-depth study of trigonometric functions. Students will evaluate, solve, and graph trigonometric functions. Students will learn both circular and right triangle trigonometry. If time allows, students will use identities and formulas to verify and solve problems. A scientific calculator is required, however for those students who plan to continue to study mathematics, we recommend using a Texas Instrument graphing calculator.

200-13 Alternative Algebra A ***Mathematics Ed*** ***1.00 SHS credit provided a grade of D or higher is earned***

A Full Year Course

This course is intended to review and develop fundamental concepts of algebra as it pertains to linear functions and equations. Study will focus on properties of real numbers, solving linear equations with one variable, graphing linear equations with two variables, writing linear equations in 3 forms, solving linear inequalities. Students taking this course will also solve systems of linear equations and linear inequalities using algebra and graphing. Basic principles of probability and statistics will also be covered. Basic right triangle geometry may be covered, time permitting.

200-14 Alternative Algebra B ***Mathematics Ed*** ***1.00 SHS credit provided a grade of D or higher is earned***

This course is intended to introduce and develop fundamental concepts of algebra as they pertain to quadratic and exponential functions. Study will focus on laws of exponents, graphing exponential functions, graphing quadratic functions in standard form factoring quadratic functions, solving quadratic equations, operations with polynomials, solving rational equations and excluded roots, operating with radicals, solving radical equations; Pythagorean Theorem and the application of radicals in right triangle geometry.

200-02 Geometry ***Mathematics Ed.*** **1.00**

A Full Year Course

Geometry is necessary for most colleges and universities. It is recommended for those who plan to attend technical school. A working knowledge of Algebra I topics is necessary for this course. In the first semester, students will study lines, points, angles, and planes. There will also be an emphasis on two-column proofs, using triangles as a basis for proofs. In the second semester, students will learn vocabulary, properties, and formulas of 2 and 3 dimensional Euclidean shapes, and solve proportions involving similar shapes

Course No.	*Course Name*	*Department*	*Credits*
200-04	***Pre-Calculus***	***Mathematics Ed.***	**1.00**

A Full Year Course

This course is recommended for those students who plan to continue taking mathematics in college. First semester is an in depth study of functions, with particular emphasis on polynomials. Second semester will continue with the study of functions, including such topics as logarithmic, trigonometric, radical, and rational, as well as an introduction to vector, parametric, and polar equations. A graphing calculator is used daily. We recommend using a Texas Instrument graphing calculator.

200-23 NWTC College Mathematics Mathematics Ed. ***1.00 SHS credit provided a grade of D or higher is earned***
A Full Year Course ***3.00 NWTC credits provided a grade of C or higher is earned***

This Course is an introductory course designed to review and develop fundamental concepts of arithmetic, algebra, geometry, and statistics. Emphasis will be placed on computational skills and applications of rational numbers; problem solving skills with ratios, proportions, and percent; basic principles and application of algebra, geometry, graphing, and statistics; measurement skills in US Customary and Metric Systems; and the use of calculators as a tool.

500-01 Concert Band I Music Education **1.00**
A Full Year Course

Concert Band I is an organization and class for high school students that are interested in developing their skills on a wind or percussion instrument and performing quality music. In addition to daily rehearsals, each member has a weekly private lesson, generally during a study period. The band performs at selected home football games and basketball games, as well as playing three or four public performances during the course of a year. Students may elect to participate in conference Solo-Ensemble festivals, and the band performs annually at the M&O Concert Festival. Within the concert band yet as a separate group, the Jazz Ensemble and Combo are formed each year to provide students with the opportunity to learn about and perform in the jazz and popular music idioms.

500-02 Concert Choir Music Education **0.20**
A Full Year Course

The Concert Choir is a performing singing group open to all students 9-12. Various groups will be selected for performance from this SATB choir, including Women's Choir, (SSA), Men's Choir (TB), and any smaller groups such as Vocal Jazz, Barbershop Quartets, Madrigal groups, etc. Course requirements include individual or group voice lessons, class attendance, and attendance at special rehearsals if called. Semester I participation includes the Fall Concert, and Christmas Concert. Semester II includes the Pops Concert, Spring Concert, and Conference WSMA Music Festival. Evening performances are typical and are required attendance for an above average grade. Seniors from Concert Choir traditionally perform for Graduation. Semester II students will all participate in the WSMA Conference "Solo-Ensemble" in some capacity that can be a solo, or group singing such as a duet, trio, various quartets, or even larger groups. Students may be involved in up to 10 music events at "Solo-Ensemble." Early withdrawals are not offered at the end of Term I or III.

300-01 General Science 9 Science Education **1.00**
A Full Year Course

This course introduces topics of the physical sciences. Students will gain knowledge in areas of chemistry and physics. Activities include labs involving the use of chemicals, laws of motion, electricity and magnetism.

300-02 Physical Science 9 Science Education **1.00**
A Full Year Course

This college preparatory course is designed to serve as a solid foundation for the study of the physical sciences which include Chemistry and Physics. Topics to be investigated are phases of matter, atomic structure, force and motion, work, simple machines, conservation and transformation of energy, heat, waves, and laboratory techniques. The role of the student in this course is to develop inquiry and problem solving skills within the context of scientific investigation.

Course No.	*Course Name*	*Department*	*Credits*
300-03	***Biology 10***	***Science Education***	**1.00**

A Full Year Course

Biology is designed to prepare the student to be more successful in a college laboratory setting. It is a course that deals with the investigations into the unifying features of living things. This is done by studying what biologists know about life and how they acquire this knowledge. This course will cover many of the same concepts as general biology, but in a more detailed approach. The course will also cover some of the more advanced concepts in biology in both a lecture and laboratory setting.

300-04 Anatomy/Physiology ***Science Education*** **1.00**

A Full Year Course

This course includes the study of the structure and function of the human body. Students will devote time to studying the workings of the various organ systems composing the body. Lab activities include the examination of a heart, eye, brain, skeleton and fetal pig.

300-05 Chemistry ***Science Education*** **1.00**

A Full Year Course

This beginning study of Chemistry is a must for all college bound students. In this class we will discuss the development of the fundamental principles of chemistry and their applications. Chemical nomenclature, stoichiometry, atomic structure, bonding theories, periodic properties, solution calculations, gas laws and the properties of acids and bases are among the topics discussed.

300-06 AP Chemistry ***Science Education*** **1.00**

A Full Year Course

This class will build for the student a greater understanding of the concepts and processes of chemistry through a meaningful laboratory experience. It will also improve their analytical skills through a variety of problem-solving experiences. Finally this class will give the student solid preparation for the Advanced Placement Chemistry Exam.

300-07 Physics ***Science Education*** **1.00**

A Full Year Course

Physics demands a questioning mind, a thirst for knowledge, and great imagination. The study of Physics falls into four categories: Mechanics (motion), heat, waves (sound and light), and electricity. Hopefully as you study physics, your understanding of the world around you will become more meaningful.

300-09 Environmental Science ***Science Education*** **0.50**

A One-Semester Course

Students will develop awareness, knowledge, skills and commitment resulting in informed decisions, responsible behavior and constructive actions concerning environmental issues. Topics covered include: ecology, recycling, pollution, waste management, conservation, and wildlife management. This class is for juniors and/or seniors.

300-15 Science and Technology ***Science Education*** ***0.50***

A One-Semester Course

Science and Technology will provide students with an understanding of the use of process skills as an integral part of scientific activity and technological development. Students learn how scientific phenomena are explained, measured, predicted, organized, and communicated.

350-05 American Government 12 ***Social Studies*** **0.50**

A One-Semester Course

This semester course will look at the origins of American government, a study of the U.S. Constitution, an in-depth look at the Congress and an investigation of the Presidency. Aspects of state and local government will be compared to the national government. Current events and political events will be incorporated on an ongoing basis.

Course No.	*Course Name*	*Department*	*Credits*
350-18	***Current Events***	***Social Studies***	***0.50***

A One-Semester Course

This course covers events and issues in the news during the time of the course. Course topics may include news media, government, campaigns, women issues, sports and entertainment. This course will focus on current issues, examine selected issues throughout the 20th century, and look at historical causes or possible solutions. State and local issues will be included.

350-08 Economics Social Studies 0.50
A One Semester Course

This course provides an introduction to key economic concepts such as scarcity, supply and demand, money and banking, monetary and fiscal policy, and major economic theories. We will look at the role the government plays in our economic system.

350-27 History of the United States Social Studies 1.00 (4 college credits offered through St. Norbert)
A Full Year Course

This course will trace the political, socioeconomic diplomatic and cultural development of the United States from its pre-Columbian origins to the present. Course requirements will include reading of primary and secondary sources, reading quizzes, short papers, essay examinations, discussions and oral presentations.

350-25 History through Film- Social Studies 0.50
A One Semester Course

This course will study U.S. History and World History through the use of film and will provide a chronological view of major events that have shaped history. Items studied will include cultural groups, political and economic systems, and social positions.

350-28 Leadership Theory and Practice Social Studies 1.00 (4 college credits offered through St. Norbert)
A Full Year Course

This course introduces and acquaints students with the history of leadership studies, past and current leadership theories and styles and their practical implementation in the daily operational leadership activities in the field of health studies, engineering/manufacturing, international business and education.

350-10 Social Problems Social Studies 0.50
A One-Semester Course

Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

350-02 U.S. History Social Studies 1.00
A Full Year Course

This course begins with a brief review of the history of the American's origins through the Civil War intertwined with skill building activities. The course offers a study of the United States from Reconstruction to the present day.

350-10 World Studies I Social Studies 0.50
A One Semester Course

World Studies I course provides students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

Course No.	*Course Name*	*Department*	*Credits*
350-19	***World Studies II***	***Social Studies***	**0.50**

A One Semester Course

World Studies II course examines the history, politics, economics, society, and/or culture of one or more regions of the world, such as Africa, Latin America, the former Soviet Union, Far East Asia, and the Middle East. This course may focus primarily on the history of a particular region or may take an interdisciplinary approach to the contemporary issues affecting the region. Furthermore, this course may emphasize one particular country (other than the United States), rather than emphasizing a region or continent.

750-02 ***Architectural Drafting*** ***Technology Ed.*** **1.00**

A Full Year Course

Architectural drafting is a course designed to develop the student's ability to make and read drawings as part of industry today. The student will be confronted with an appreciation for neatness and accuracy. The units are designed to help the student clearly understand the principals behind industrial occupations, tools, techniques, multi views, basic house designs, dimensioning, pictorial drawings, plot plans and floor plans. The course is presented in relationship to the insight of our architectural society and to point out the similarities between the student's work and work done in the architectural world today. Auto CAD will be used.

750-03 ***Construction I*** ***Technology Ed.*** **1.00**

A Full Year Course

Construction I is a basic course in woodworking, providing an understanding of the tools, materials, and processes that are used in the woodworking industry today. Areas of study include: hand and machine tools, wood materials, construction and finishing.

750-04 ***Construction II*** ***Technology Ed.*** **0.50**

A One-Semester Course

Construction II is an advanced course in woodworking. Providing the student with a chance to increase skills and knowledge in the woodworking areas used today. Areas of study include: wood materials and construction, machine tools, finishing and building construction.

750-08 ***Materials & Processes*** ***Technology Ed.*** **0.50**

A One-Semester Course.

Materials and Processes is an introduction to the World of Technology. The students will be introduced to drafting, which are needed to design and construct projects. The student will also make a small project.

750-07 ***Manufacturing Systems*** ***Technology Ed.*** ***0*.50**

A One-Semester Course

Manufacturing Systems will cover designing and engineering products, developing production systems, manufacturing products, marketing products, performing financial activities, and career opportunities. The class will form a small business and market a product.

750-11 ***Small Engines I*** ***Technology Ed.*** ***0.50***

A One-Semester Course

This course provides students with the opportunity to learn how to service and recondition small engines, typically emphasizing two- and four-cycle engines. Small Engines will provide students with opportunities to troubleshoot and repair speed controls, lubrications, ignition, fuel, power transfer, cooling, exhaust, and starting systems; use hand, power, and overhaul tools; and read and interpret service manuals and parts catalogs. Applications may include lawn mowers, tractors, tillers, power tools, and so on.

Course No.	*Course Name*	*Department*	*Credits*
750-12	***Small Engines II***	***Technology Ed.***	***.50***

A One-Semester Course

This independent study course enables students to explore topics of interest related to the maintenance of vehicles and engines. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.

750-13 Welding I Technology Ed. .50
A One-Semester Course

Welding I enables students to gain knowledge of the physical and chemical properties, uses, and applications of various metals. Students gain skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes) and experience in identifying, selecting, and rating appropriate techniques. Students read and interpret blueprints in order to identify, select, and rate appropriate techniques.

750-14 Welding II Technology Ed. .50
A One-Semester Course

In Welding II students gain knowledge and skill in particular aspects of welding. Examples include individual courses in each of the following types of welding: gas metal, gas tungsten, and shielded metal and flux core arc welding.

***450-02 Teacher Aide Miscellaneous* 0.50**
A One-Semester Course (Pass/Fall Course)

Elective course open to all students who will be screened regarding a good attendance record and character. ***Teacher and Principal approval is required***. (Limited to 1.0 credits)

The role of the student aide is to provide assistance to the teacher in daily duties. The aide would report to the teacher regarding duties to be done.

***450-01 Tutoring Miscellaneous* 0.50**
A One-Semester Course (Pass/Fail Course)

Elective course open to juniors and seniors who will be screened regarding a good attendance record, knowledge of basic skills, and character. ***Guidance Counselor and Principal approval is required.*** (Limited to 1.0 credits)

The role of the tutor is to provide guidance, encouragement and support along with teaching skills in the requested area of English, Math, Science, or Social Studies.

450-03 Work Experience Miscellaneous 0.50
A One-Semester Course (Pass/Fail Course)

Prerequisite – Career Exploration

This program allows students an opportunity to leave school for an hour or more to work at a job. It is designed to prepare students to be successful workers in our society. A student needs to apply with the school-to-work coordinator or the guidance counselor.

TRITON COURSES

TRITON Student Policy
Students who enroll in Distance Learning Course(s) on the TRITON network must adhere to and follow the rules by signing a student contract and attending a mandatory orientation.

The student must:
1) Be in good academic standing.
2) Student and parent must attend a mandatory student orientation session and sign a student contract.
3) NWTC classes are offered to senior status students only.
4) All students enrolling in Triton classes should also select alternatives in case the Triton class is not offered due to enrollment number requirements.

AP CALCULUS
Pre-requisite: Pre Calc (Trigonometry)

TRITON Year-long Course
The course is intended to give students a calculus background in order to be competitive at the college level. Students who plan on majoring in mathematics, engineering, chemistry, physics, or other related fields should take advantage of this course. Students taking Calculus will realize that functions are the major tools for describing the real world in mathematical terms. The class opens with basic review of pre-calculus topics. Much work is done with functions algebraically and confirmed on a graphing utility. Some topics for the first semester are: limits, continuous functions, the Sandwich Theorem, numerical derivatives, derivatives of trigonometric functions, the Chain Rule, implicit differentiation, the Mean Value Theorem, Newton's Method and applications for first and second derivatives. The second semester of Calculus continues with area problems involving integrating functions, applied problem solving, transcendental functions, and the techniques of integration. With the completion of this course, students have the option of taking the C.L.E.P. or AP Calculus test for college and math credits. **Students are required to have a graphing calculator.**

FORGEIN LANGUAGE

SPANISH I
Grade Level: 9-12
TRITON Year-long Course

Spanish provides students with the opportunity to have new experiences. Students will have the chance to hear music, watch videos in either Spanish or with subtitles, and engage in level-appropriate readings. Throughout the year, students will learn about Hispanic culture, including the main holidays. The skills students will develop are translating and reading, speaking, listening, writing and acquiring vocabulary. In Spanish I, students will be learning: greetings, feelings, days and months, nationalities, location of people and things, descriptive adjectives, family, questions, words, numbers, present time activities. It is possible that a field trip may be taken. Students will be required to buy a dictionary at the beginning of the year.

SPANISH II
Grade Level: 11-12 Prerequisite: Spanish I
TRITON Year-long Course

Spanish provides students with the opportunity to have new experiences. Students will have the chance to hear music, watch videos in either Spanish or with subtitles, and engage in level-appropriate readings. Throughout the year, students will learn about Hispanic culture, including the main holidays. The skills students will develop are translating and reading, speaking, listening, writing and acquiring vocabulary. It is possible that a field trip may be taken. Spanish II is a continuation of Spanish I. In Spanish II, students will be refining what they had learned in Spanish I along with learning how to discuss past activities and give commands.

SOCIAL STUDIES

PSYCHOLOGY – INTRO (NWTC)
STUDENTS MUST BE OF *SENIOR* STANDING TO TAKE THIS COURSE
TRITON Semester Course **–** Meets 3 Days/Week

STUDENTS MUST BE OF *SENIOR* STANDING TO TAKE THIS COURSE
A college teaches this course. It will be taught at a college level and the primary audience is the college-age or adult learner. As such, the content of this class will be for adult students.
Survey of theoretical foundations of human behavior such as sensation and perception, motivation, emotions, learning, and personality; psychological disorders; therapy; stress and human diversity in personal, social, and vocational settings.
This course will transfer into the Wisconsin Technical College System AND various UW System Colleges.

SOCIOLOGY (NWTC)
STUDENTS MUST BE OF *SENIOR* STANDING TO TAKE THIS COURSE
TRITON Semester Course **–** Meets 3 Days/Week

A college teaches this course. It will be taught at a college level and the primary audience is the college-age or adult learner. As such, the content of this class will be for adult students.
Sociology examines how individuals, groups, and institutions interact to make up human societies. Students will learn about sociological perspectives, culture, social structures, and social inequality. Students will study people and the roles they play in society, both as individuals and groups. Students will learn about social institutions and social change. Topics of interest include: the family, education, political and economic institutions, religion and sports.
This course will transfer into the Wisconsin Technical College System AND various UW System Colleges.

COURSE CHANGES – Regular/Triton Courses

Since the administration staffs the school with teachers and orders equipment and supplies based on the number of students enrolled in each course, we are very hesitant about making changes unless it is absolutely necessary. Therefore, you should regard your decisions as unchangeable.

We also adhere to a philosophy that takes into consideration all students' needs. We encourage you to challenge yourself by seeking those courses which will enrich your education to its fullest. Some courses may prove to be more demanding on certain individuals than others, and we suggest you design a program along with your parents, present teachers, counselor and high school principal that best challenges your ability.

Prior to making a request to change your classes, review the following guidelines, which will be used to considering denial or approval of your request:
1) Courses may not be added to your schedule after the 3rd day of a new semester for a semester course.
2) Courses may not be dropped if your total number of classes falls below the required minimum of 7.
3) Courses already filled for a given term (semester or quarter) are considered to be closed and will not be available to students requesting program additions.
4) Students will not be allowed to withdraw from a course with a minimum enrollment.
5) Prior to any program change requests being honored, a conference with the guidance counselor, high school principal and the applicable instructors will need to take place.

INDEPENDENT STUDY

Independent study classes are offered in some instances to enhance the regular curriculum. Classes offered must be associated with the regular curriculum. Independent study classes are arranged between the teacher and student and require approval of the high school principal. Suring High School utilizes independent study classes in liberal arts, vocational, and regular education as part of the Gifted and Talented program.

GRADUATION PLANNING GUIDE

25 total credits required. Successful completion of the following subject and credit requirements is also required for graduation:	Entrance Requirements for most UW colleges ***
English (4 cr. Total) English 9- S1 _____ _____.5cr English 9-S2 _____ _____.5cr English 10 – S1 _____ _____.5cr English 10 – S2 _____ _____.5cr English 11-S1 _____ _____.5cr English 11- S2 _____ _____.5cr Elective _____ _____.5cr Elective _____ _____.5cr	English 4 credits required, more encouraged. Students should take the most rigorous courses available.
Math (3 cr. Total) Elective 9-S1 _____ _____.5cr Elective 9-S2 _____ _____.5cr Elective 10-S1 _____ _____.5cr Elective 10-S2 _____ _____.5cr Elective _____ _____.5cr Elective _____ _____.5cr	Math 3 credits required, which should include Algebra, Geometry and Algebra II. More credits are encouraged.
Science (3 cr. Total) Physical Science 9- S1 _____ _____.5cr Physical Science 9-S2 _____ _____.5cr Biology 10 – S1 _____ _____.5cr Biology 10-S2 _____ _____.5cr Elective _____ _____.5cr Elective _____ _____.5cr	Science 3 credits required. Higher level science classes such as Physics and Chemistry are preferred.
Social Studies (3cr. Total) US History 9 – S1 _____ _____.5cr US History 9 – S2 _____ _____.5cr US Government _____ _____.5cr Economics or Personal Finance _____ _____.5cr Elective _____ _____.5cr Elective _____ _____.5cr	Social Studies 3 credits required, more encouraged.
Physical Education (1.5cr Total) Team Sports _____ _____.5cr Team Sports _____ _____.5cr Elective _____ _____.5cr	Credits must be taken over 3 years.

Health (.5 cr Total) Health _____ _____.5cr	
Electives (10cr Total) _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr _____ _____ _____.5cr Mental Health _____ _____.5cr	**Electives** 10 credits required. These may include foreign language, fine arts, etc. Students should check with the college to which you are applying. The foreign language requirement varies from school to school. Students should check the requirements for schools that they are interested in. Mental Health is required for graduation.

Notes:

The 16 Career Clusters

	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
	Careers in designing, planning, managing, building and maintaining the built environment.
	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.
	Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.
	Planning, managing and providing education and training services, and related learning support services.
	Planning, services for financial and investment planning, banking, insurance, and business financial management.
	Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.
	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

	Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.
	Preparing individuals for employment in career pathways that relate to families and human needs.
	Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.
	Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.
	Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.
	Planning, managing, and performing marketing activities to reach organizational objectives.
	Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.
	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

My top three Career Clusters are:
1.
2.
3.

For more information, check with a counselor at your high school.

Agriculture, Food, & Natural Resources

Careers in agriculture, food and natural resources involve the production, processing, marketing, distribution, financing and development of agricultural commodities and resources. These include food, fuel, fiber, wood products, natural resources, horticulture and other plant and animal products/resources.

Do you have an interest in:

Animals

- ❑ Working with sick or injured animals
- ❑ Working with companion animals like dogs and cats
- ❑ Working with unique species such as fish for food
- ❑ A medical field
- ❑ Marine biology

Foods

- ❑ What makes bread rise and pop fizz
- ❑ Being a food scientist
- ❑ Designing new food and flavors
- ❑ How science is used to process your food
- ❑ Chemistry and its application to food

Plants

- ❑ Caring for plants in your home or yard
- ❑ Designing landscapes for homes or businesses
- ❑ Developing new plants or modifying existing ones
- ❑ What plants need to grow successfully

Natural Resources

- ❑ Native fish and their aquatic habits
- ❑ Forest ecosystems
- ❑ Preservation of endangered species
- ❑ Wolves and Whitetails in Wisconsin

Career Options

From High School

On-the-job training and/or minimal experience

Bee Keeper	Fisherman	Nursery Worker	Stable Worker
Crop Sprayer	Landscape Laborer	Pet Groomer	Vet Hospital Worker
Farm Worker	Logger	Pet Shop Worker	

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Arborist	Crop/Animal Farmer	Genetic Technologist	Quality Food Control Specialist
Animal Control Officer	Environmental Technician	Golf Course Manager	Turf Manager
Animal Nutritionist	Farrier	Greenhouse Manager	Veterinary Technician
Bio-Tech Lab Technician	Fish and Game Officer	Horticulturist	Waste Water Technician
Cheese Maker	Forestry Technician	Landscape Designer	

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Agricultural Commodities Broker	Animal Scientist	Geneticist	Toxicologist
Agricultural Economist	Biochemist	Greenhouse Operator	USDA Inspector
Agricultural Educator	Botanist	Landscape Architect	Veterinarian
Agricultural Engineer	Entomologist	Marine Biologist	Wildlife Biologist
Agricultural Sales & Communications	Food Scientist	Plant Pathologist	Zoologist
Agricultural Banker	Forester	Soil Geologist	
Animal Psychologist	Game Warden	Soil Scientist	

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Architecture & Construction

Careers in architecture and construction range from designing, planning, managing and building a structure, to maintaining the built environment.

Interests and Abilities

Personal Qualities

- ❑ Curious
- ❑ Good at following directions
- ❑ Pay attention to detail
- ❑ Good at visualizing possibilities
- ❑ Patient and persistent

School Subjects

- ❑ Math
- ❑ Drafting
- ❑ Physical Sciences
- ❑ Construction Trades
- ❑ Electrical Trades/Heat, Air Conditioning and Refrigeration/Technology Education

Working with your hands

- ❑ Visit and learn from beautiful, historic, or interesting buildings
- ❑ Solve technical problems
- ❑ Perform work that requires precise results
- ❑ Follow logical, step-by-step procedures

Activities

- ❑ Picture in my mind what a finished product looks like
- ❑ Read and follow blueprints and/or instructions

Career Options

From High School

On-the-job training and/or minimal experience

Construction Laborer
Construction Worker/Helper
Groundskeeper and Gardener
Fence Builder
Highway Maintenance Worker
Roofer
Tile Setter
Grading & Leveling Machine Operator
Heavy Equipment Operator

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

HVAC Technician
Architectural Drafter
Bricklayer
Carpenter
Cement Mason
Drywall Installer
Electrician
Glazier
Pipefitter
Plasterer
Plumber
Tile Setter
Civil Engineering Technician
Electrical Engineering Technician

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Architect
Building Contractor
CAD Designer
Civil Engineer
Cost Estimator
Electrical Engineer
Grounds Supervisor
Interior Design
Landscape Architect

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Arts, A/V Technology, & Communication

Arts, audio/video technology and communication careers include designing, producing, exhibiting, performing, writing and publishing multimedia content. This field also involves the visual and performing arts, journalism and entertainment services.

Interests and Abilities

Personal Qualities

- ❑ Creative and imaginative
- ❑ Good communicator/vocabulary
- ❑ Curious about new technology
- ❑ Relate well to feelings and thoughts of others
- ❑ Determined/tenacious

School Subjects

- ❑ Art/Graphic design
- ❑ Music
- ❑ Speech and drama
- ❑ Journalism/Literature
- ❑ Audiovisual Technologies

Activities

- ❑ Perform in front of others
- ❑ Read and write
- ❑ Play a musical instrument
- ❑ Perform creative, artistic, activities
- ❑ Use video and recording technology
- ❑ Design brochure and posters
- ❑ Use my imagination to communicate new information to others

Career Options

From High School

On-the-job training and/or minimal experience

Floral Designer	Proofreader	Stained Glass	Photographer
Food Stylist	Sign Designer/Painter	Mural Painter	Pre-Press
Musician			

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Animator	Communications Line Maintainers	Recording Technician	Potter
Bookbinder	Craft Artist	Taxidermist	Graphic Designer
Broadcast Technician	Prepress Technician	Public Relations Manager	Music Repair Technician
Caption Writer	Printing Press Operator	Sign Painter	Recording Technician

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Animator	Potter	Art Teacher	Musician
Artist	Set Designers Reporter	Art Professor	Music Teacher
Cinematographer	Illustrator	Art Therapist	Music Therapist
Composer	Jeweler	Graphic Designer	Composer
Copy Editor	Architect	Videographer	Recording Engineer
Dancer	Interior Decorator	Journalist	Music Repair
Photographer			

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Business Management & Administration

Business management and administration careers encompass planning, organizing, directing and evaluating business functions that are essential to efficient and productive business operations. These career opportunities are available in every sector of the economy.

Interests and Abilities

Personal Qualities

- ❑ Organized
- ❑ Practical and logical
- ❑ Patient
- ❑ Tactful
- ❑ Responsible

School Subjects

- ❑ Accounting
- ❑ Math
- ❑ English
- ❑ Economics
- ❑ Computer Applications/Business and Information Technology

Activities

- ❑ Work with numbers and detailed information
- ❑ Be the leader in a group
- ❑ Make business contact with people
- ❑ Plan my work and follow instructions without close supervision
- ❑ Create reports and communicate ideas
- ❑ Work with computer programs
- ❑ Perform routine, organized activities but can be flexible

Career Options

From High School

On-the-job training and/or minimal experience

Bank Teller	Meter Reader	Typist	Billing, Cost & Rate Clerk
Caterer	Receptionist	Human Resource Clerk	Hospital Admitting Clerk
File Clerk	Sales Clerk	Hotel Clerk	Data Entry Clerk
Mail Clerk	Telephone Operator		

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Accountant	Kennel Owner	Tax Preparer	Word Processor
Administrative Assistant	Small Business Owner	Funeral Director	Retail Sales Supervisor
Computer Operator	Stenographer	Management Trainee	Industrial Clerk
Court Reporter			

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Accountant-CPA	Health Care Administrator	Sales Representative	Travel Agency Manager
Advertising Manager	Human Resource Manager	Theater Manager	Musician's Agent
Art Director	Instrument Sales/Manufacturing	Marketing Manager	Event Planner
Business and Industry Consultant	Marketing Music Jingle Writer		

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Education & Training

Careers in education and training involve planning, managing, and providing education and training services, as well as related learning support services.

Interests and Abilities

Personal Qualities

- ❑ Friendly
- ❑ Decision maker
- ❑ Helpful
- ❑ Innovative/Inquisitive
- ❑ Good listener

School Subjects

- ❑ Language Arts
- ❑ Social Studies
- ❑ Math
- ❑ Science
- ❑ Psychology

Activities

- ❑ Communicate with different types of people
- ❑ Help others with their homework or learn new things
- ❑ Go to school
- ❑ Direct and plan activities for others
- ❑ Handle several responsibilities at once
- ❑ Acquire new information
- ❑ Help people overcome their challenges

Career Options

From High School

On-the-job training and/or minimal experience

Aerobics Instructor
Child Care Assistant
Dance Teacher
Library Assistant
Self-Enrichment Teacher

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Computer Installation & Demonstration
Preschool Teacher
Teacher Assistant
Library Technician
Sign Language Interpreter

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Apprenticeship Consultant
Bilingual Educator
Educational Administrator
Instructional Coordinator
Kindergarten Teacher
Music Teacher
Music Therapist
School Psychologist
Secondary School Teacher
Teacher of the Blind
Vocational Education Teacher
Librarian
Speech-Language Pathologist
School Counselor
University Professor
Training Program Manager
Elementary School Teacher
Special Education Teacher
Adult Literacy Teacher

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Finance

People working in finance are involved in developing services for financial and investment planning, banking, insurance and business financial management.

Interests and Abilities

Personal Qualities

- ❑ Trustworthy
- ❑ Orderly
- ❑ Self-confident
- ❑ Logical
- ❑ Methodical or efficient

School Subjects

- ❑ Accounting
- ❑ Math
- ❑ Economics
- ❑ Banking/Financial Services
- ❑ Business Law

Activities

- ❑ Work with numbers
- ❑ Work to meet a deadline
- ❑ Make predictions based on existing facts
- ❑ Have a framework of rules by which to operate
- ❑ Handle money with accuracy and reliability
- ❑ Take pride in the way I dress and look
- ❑ Analyze financial information and interpret it to others

Career Options

From High School

On-the-job training and/or minimal experience

Bill & Account Collector Brokerage Clerk Cashier

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Accountant	Claim Adjuster	Insurance Agent	Loan Officer
Brokerage Clerk	Financial Institution Manager	Investigator & Adjustor	Personal Property Appraiser

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Accountant, CPA	Controller	Investment Advisor	Economist
Actuary	Credit Analyst	Music Store Accountant	Financial Advisor
Auditor	Credit Card Operations Manager	School District Business	Stockbroker
Brokerage Clerk	Insurance Underwriter	Manager	Real Estate Appraiser
Business & Industry Consultant			

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Government & Public Administration

People working in government and public administration careers execute governmental functions including governance, national security, foreign service, planning, revenue and taxation, regulation, and management and administration at the local, state and federal levels.

Interests and Abilities

Personal Qualities

- ❑ Good communicator
- ❑ Competitive
- ❑ Service minded
- ❑ Well organized
- ❑ Problem solver

School Subjects

- ❑ Government
- ❑ Language Arts
- ❑ History
- ❑ Math
- ❑ Foreign Language

Activities

- ❑ Be involved in politics
- ❑ Negotiate, defend, and debate ideas and topics
- ❑ Plan activities and work cooperatively with others
- ❑ Work with details
- ❑ Analyze information and interpret it to others
- ❑ Travel and see things that are new to me
- ❑ Perform a variety of duties that may change often

Career Options

From High School

On-the-job training and/or minimal experience

Mail Carrier
Postal Clerk
Driver's License Examiner
Mail Handling Machine Operator
License Clerk
Infantry Forces

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Coroner
City Planning Aid
Building Inspector
Title Examiner
Accountant
Associate Executive
Postmaster
Transportation Inspector
Infantry Forces
Special Forces

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Accountant
Apprenticeship Consultant
Aviation Security Specialist
City Manager
Dean of Students
Emergency Mgmt. Specialist
Equal Opportunity Specialist
Infantry Officer
Lawyer
Special Operations Officer
Urban Planner
Legislator
Music Administrator
Political Scientist
Public Utilities Mgr.
Occ. Health & Safety Specialist
Peace Corps Volunteer
Social Services Administrator
Translator/Interpreter

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Health Science

Planning, managing and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development are all functions of health science careers.

Interests and Abilities

Personal Qualities

- ❑ Compassionate and caring
- ❑ Good at following directions
- ❑ Conscientious and careful
- ❑ Patient
- ❑ Good listener

School Subjects

- ❑ Biological Sciences
- ❑ Chemistry
- ❑ Math
- ❑ Occupational Health classes
- ❑ Language Arts

Activities

- ❑ Work under pressure
- ❑ Help sick people and animals
- ❑ Make decisions based on logic and information
- ❑ Participate in health and science classes
- ❑ Respond quickly and calmly in emergencies
- ❑ Work as a member of a team
- ❑ Follow guidelines precisely and meet strict standards of accuracy

Career Options

From High School

On-the-job training and/or minimal experience

Certified Nursing Assistant
Clerk
Food Service Worker
Hospital Admitting

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Emergency Medical Technician
Home Health Aide
Massage Therapist
Physical Therapy Aide
Radiology Technologist
Registered Nurse
Surgical Technician
Translator and Interpreter
Ultrasound Technician
Medical Assistant
Dental Assistant
Dental Hygienist
Dialysis Technician
Occupational Therapy Assistant

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Athletic Trainer
Chiropractor
Dentist
Dietician
Occupational Therapist
Music Therapist
Pharmacist
Primary Care Physician
Psychiatrist
Surgeon
Geneticist
Statistician
Podiatrist
Oral Surgeon
Registered Nurse
Nurse Practitioner
Anesthesiologist
Hemotherapist

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Hospitality & Tourism

Hospitality and tourism encompasses the management, marketing and operations of restaurants and other facilities and services including lodging, attractions, recreation events and travel-related services.

Interests and Abilities

Personal Qualities

- ❑ Tactful
- ❑ Self-motivated
- ❑ Works well with others
- ❑ Outgoing
- ❑ Slow to anger

School Subjects

- ❑ Language Arts/Speech
- ❑ Foreign Language
- ❑ Social Sciences
- ❑ Marketing
- ❑ Food Services

Activities

- ❑ Investigate new places and activities
- ❑ Work with all ages and types of people
- ❑ Have a flexible schedule
- ❑ Help people make up their minds
- ❑ Communicate easily, tactfully, and courteously
- ❑ Learn about other cultures
- ❑ Organize activities in which other people enjoy themselves

Career Options

From High School

On-the-job training and/or minimal experience

Baggage Porter & Bellhop	Food Attendant	Usher	Waiter/Waitress
Concierge	Gaming Change Person & Booth Cashier	Janitor	Restaurant Host/Hostess
Day Worker	Guide	Hotel Clerk	Hotel/Motel Cleaner

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Club Manager	Household Manager	Restaurant Manager	Caterer
Conference Planner	Motel & Hotel Manager	Taxidermist	Concierge
Food Service Supervisor	Recreation Director	Translator (Interpreter)	Restaurant Cook/Chef

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Archivist	Curator	Park Ranger	Theatre Manager
Coach	Historian	Recreation Director	Translator/Interpreter
Conservation Technician	Musicians Agent	Resort Manager	Zookeeper

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Human Services

Employment in human services focuses on families and human needs.

Interests and Abilities

Personal Qualities

- ❑ Good communicator/listener
- ❑ Caring
- ❑ Non-materialistic
- ❑ Uses intuition and logic
- ❑ Non-judgmental

School Subjects

- ❑ Language Arts
- ❑ Psychology/Sociology
- ❑ Family and Consumer Sciences
- ❑ Finance
- ❑ Foreign Language

Activities

- ❑ Care about people, their needs, and their promotions
- ❑ Participate in community services and/or volunteering
- ❑ Listen to other people's viewpoints
- ❑ Help people be at their best
- ❑ Work with people from preschool to old age
- ❑ Think of new ways to do things
- ❑ Make friends with different kinds of people

Career Options

From High School

On-the-job training and/or minimal experience

Aerobics Instructor
Crossing Guard
Household Cook
Nanny

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Community Organization Worker
Cosmetologist
Funeral Director
Institutional Cook
Nail Technician
Preschool Teacher
Shoe Repairer
Skin Care Specialist
Embalmer
Child Care Assistant

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Dietician
Investment Advisor
Liturgical Minister
Clergy
Music Therapy
Placement Counselor
Psychiatrist
Psychologist
School Counselor
Sociologist
Social Worker
Vocational Rehab Counselor
Alcohol & Drug Abuse Counselor
Career Counselor
Financial Counselor
Personal Counselor
Religious Worker

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Information Technology

Information technology entry level, technical and professional careers relate to the design, development, support and management of hardware, software, multimedia and systems integration services.

Interests and Abilities

Personal Qualities

- ❑ Logic/analytical thinker
- ❑ See details in the big picture
- ❑ Persistent
- ❑ Good concentration skills
- ❑ Precise and accurate

School Subjects

- ❑ Math
- ❑ Science
- ❑ Computer Tech/Applications
- ❑ Communications
- ❑ Graphic Design

Activities

- ❑ Work with computers
- ❑ Reason clearly and logically to solve complex problems
- ❑ Use machines, techniques, and processes
- ❑ Adapt to change
- ❑ Play video games and figure out how they work
- ❑ Concentrate for long periods without being distracted
- ❑ Read technical materials and diagrams, and solve technical problems

Career Options

From High School

On-the-job training and/or minimal experience

Careers in this field require more than minimal experience or on-the-job training

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Computer Support Specialist	Recording Engineer	Tool Programmer	Webmaster
Computer Systems Analyst	Sound Manager		

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Animator	Illustrator	Video Game Designer	Computer Programmer
Computer Engineer	Software Engineer	Computer Systems Analyst	Computer Security Specialist
Computer Network Coordinator	Scientific & Engineering Programmer	Medical & Scientific Illustrator	Information Scientist
Database Administrator	Webmaster		

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Law, Public Safety, Corrections, & Security

Planning, managing and providing legal, public safety and protective services and homeland security are some of the functions of law, public safety, corrections and security careers. This field includes professional and technical support services.

Interests and Abilities

Personal Qualities

- ❑ Adventurous
- ❑ Dependable
- ❑ Community-minded
- ❑ Decisive
- ❑ Optimistic

School Subjects

- ❑ Language Arts
- ❑ Psychology/Sociology
- ❑ Government/History
- ❑ Law Enforcement
- ❑ First Aid/First Responder

Activities

- ❑ Work under pressure or in the face of danger
- ❑ Make decisions based on my own observations
- ❑ Interact with other people
- ❑ Be in position of authority
- ❑ Respect rules and regulations
- ❑ Debate and win arguments
- ❑ Observe and analyze people's behavior

Career Options

From High School

On-the-job training and/or minimal experience

Correctional Officer
Crossing Guard
Dispatcher
Parking Enforcement Officer
Security Guard

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Bailiff
Copyright Law
Court Reporter
Emergency Medical Technician
Firefighter
Legal Secretary
Musician Law
Paralegal Assistant
Park Ranger
Police Officer
Fire Inspector
Police Canine Trainer

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Adjudicator
Arbitrator
FBI Agent
Forensic Science Technician
Judicial Law Clerk
Lawyer
Park Ranger
Probation and Parole Officer
Judge
Fingerprint Examiner
Conservation Warden
Emergency Management Specialist
Private Detective
State Patrol Officer
Police Officer
Correctional Officer Supervisor

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Manufacturing

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

Interests and Abilities

Personal Qualities

- ❑ Practical
- ❑ Observant
- ❑ Physically active
- ❑ Step-by-step thinker
- ❑ Coordinated

School Subjects

- ❑ Math (Geometry)
- ❑ Chemistry
- ❑ Trade and Industry courses
- ❑ Physics
- ❑ Language Arts

Activities

- ❑ Work with my hands and learn that way
- ❑ Put things together
- ❑ Do routine, organized and accurate work
- ❑ Perform activities that produce tangible results
- ❑ Apply math to work out solutions
- ❑ Visualize objects in three dimensions from flat drawings
- ❑ Use hand and power tools and operate equipment/machinery

Career Options

From High School

On-the-job training and/or minimal experience

Apparel & Home Furnishings Dyer
Brush Painter
Engraver
Hand Worker
Oil Well Driller
Order Filler
Production and Planning Clerk
Production Assembler
Tire Builder

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Apparel Pattern Maker
Combination Welder
Computer Technician
Electrical Appliance Servicer
Electric Motor Technician
Locksmith
Musical Instrument Repairer
Machinist
Tool and Die Maker
Quality Control Technician
Electronic Engineering Technician
Electrical Engineer
Industrial Engineering Technician

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Communications Operations Mgr.
Electrical Engineer
Electronic Engineer
Engineering Manager
Environmental Engineer
Industrial Engineer
Mechanical Engineer
Musical Instrument Design
Occupational Health & Safety Inspector
Production Supervisor
Stage & Sound Equipment Mfg.

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Marketing

People working in marketing careers plan, manage and perform marketing activities to reach organizational objectives.

Interests and Abilities

Personal Qualities

- ❑ Enthusiastic
- ❑ Competitive
- ❑ Creative
- ❑ Self-motivated
- ❑ Persuasive

School Subjects

- ❑ Language Arts
- ❑ Math
- ❑ Business Education/Marketing
- ❑ Economics
- ❑ Computer Applications

Activities

- ❑ Shop and go to the mall
- ❑ Be in charge
- ❑ Make displays and promote ideas
- ❑ Take advantage of opportunities to make extra money
- ❑ Communicate my ideas to other people
- ❑ Give presentations and enjoy public speaking
- ❑ Persuade people to buy products or to participate in activities

Career Options

From High School

On-the-job training and/or minimal experience

Antique/Collectible Dealer
Cashier
Classified Ad Clerk
Counter Clerk
Customer Service Representative
News Vendor
Street Vendor
Telemarketer
Wedding Planner

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Advertising Layout Designer
Advertising Sales Representative
Auctioneer
Auto Salesperson
Buyer
Instrument Sales
Real Estate Agent

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Advertising Account Executive
Advertising Manager
Business Agent
Marketing Manager
Public Relations Manager
Purchasing Agent
Research Analyst
Public Relations Practitioner
Insurance Agent
Purchasing Manager
Market Research Analyst
Real Estate Broker

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Science, Technology, & Mathematics

The fields of science, technology, engineering and mathematics involve planning, managing and providing scientific research and professional and technical services (such as physical science, social science and engineering). These may include laboratory and testing services, as well as research and development.

Interests and Abilities

Personal Qualities

- ❑ Detail oriented
- ❑ Inquisitive
- ❑ Objective
- ❑ Methodical
- ❑ Mechanically inclined

School Subjects

- ❑ Math
- ❑ Science
- ❑ Drafting/Computer Aided Drafting
- ❑ Electronics/Computer Networking
- ❑ Technical Classes/Technology Education

Activities

- ❑ Interpret formulas
- ❑ Find answers to questions
- ❑ Work in a laboratory
- ❑ Explore new technology
- ❑ Experiment to find the best way to do something
- ❑ Pay attention to details and help things be precise
- ❑ Figure out how things work and investigate new things

Career Options

From High School

On-the-job training and/or minimal experience

Statistical Clerk

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Biological Technician
Chemical Technician
Civil Engineering Technician
Environmental Technician
Mathematical Technician
Industrial Engineering Technician
Veterinary Technician
Nuclear Technician
Mechanical Engineering Technician
Petroleum Technician
Electronics Engineering Technician

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Aerospace Engineer
Anthropologist
Archaeologist
Astronomer
Biomedical Engineer
Chemical Engineer
Civil Engineer
Computer Engineer
Electrical Engineer
Geologist
Industrial Engineer
Mathematician
Mechanical Engineer
Metallurgist
Mining Engineer
Nuclear Engineer
Physicist
Solar Engineer
Statistician

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills

Transportation, Distribution, & Logistics

Careers in transportation, distribution and logistics involve planning, management and movement of people, materials and goods by road, pipeline, air, rail and water, as well as related professional and technical support services such as transportation infrastructure planning and management, logistics services and mobile equipment and facility maintenance.

Interests and Abilities

Personal Qualities

- ❑ Realistic
- ❑ Mechanical
- ❑ Coordinated
- ❑ Observant
- ❑ Planner

School Subjects

- ❑ Math
- ❑ Trade and Industry courses
- ❑ Physical Sciences
- ❑ Economics
- ❑ Foreign Language

Activities

- ❑ Travel
- ❑ See well and have quick reflexes
- ❑ Solve mechanical problems
- ❑ Design efficient processes
- ❑ Anticipate needs and prepare to meet them
- ❑ Drive or ride
- ❑ Move things from one place to another

Career Options

From High School

On-the-job training and/or minimal experience

Bus Driver	Highway Maintenance Worker	Shipping and Receiving Clerk	Taxicab Driver
Deckhand	Reservation and Ticket Clerk	Traffic Clerk	Light Truck Driver
Delivery Driver	Service Station Attendant		

Certification/Associate Degree

Community college, technical college, and/or apprenticeship experience

Aircraft Mechanic	Cartographic Technician	Railroad Conductor	Travel Agent
Auto Body Technician	Diesel Technician	Security Consultant	Flight Attendant
Automobile Painter	Motorcycle Technician		

Bachelors, Pre-Professional or Higher Degree

Colleges/Universities

Airline Pilot	Environmentalist	Mechanical Engineer	Public Health Sanitarian
Air Traffic Controller	Locomotive Engineer	Mining Engineer	Travel Agency Manager
Astronaut			

Cluster Knowledge and Skills

Academic Foundations, Communications, Problem Solving & Critical Thinking, Information Technology Application Systems, Safety/Health/Environment, Leadership & Teamwork, Ethics & Legal Responsibility, Employability & Career Development, Technical Skills