

SOUTH HAMILTON HIGH SCHOOL



1

Course Planning Guide

2017-2018

Table of Contents

Graduation Requirements	Pages 3-4
Future Planning	Page 5
Academic Policies	Pages 6 – 7
Agriculture Department	Pages 8-11
Art Department	Pages 12-13
Business Department	Pages 13-18
Family & Consumer Science Department	Pages 19-22
Health and Physical Education Department	Pages 23-24
Industrial Technology Education	Pages 25-27
Language Arts Department	Pages 28-30
Math Department	Pages 31-35
Music Department	Pages 35-36
Other offering	Page 36
Project Lead the Way	Pages 37-38
Science Department	Pages 38-41
Social Studies Department	Pages 41-43
World Language Department	Pages 43-44
E2020	Pages 45
Concurrent Enrollment	Pages 45-46
ICCC Online courses (FlexNet)	Page 47-48
Senior Year Plus	Page 48-49
RAI /Regent Universities Admission Requirements	Page 50-51
NCAA Requirements	Page 52

South Hamilton Graduation Requirements

For graduation from South Hamilton High School, a student must successfully complete 48 credits including a minimum of the following course areas. All students must have all periods scheduled with a class. Every student must take a minimum of six full credited courses plus PE per semester.

Graduation requirements for grades 9-12 are as follows:

English	2 credits - Language Arts 9 2 credits – Language Arts 10 2 credits – Language Arts 11 2 credits – Elective – College Prep, Practical English, Contemporary Literature, AP English, ICCC ENG 105/106, Intro to Speech, ICCC Creative Writing, Reading Skills <u>Total</u> 8 Credits
Social Studies	2 credits – World History – 10 th grade 2 credits – American History – 11 th grade 2 credits – Government – 12 th grade <u>Total</u> 6 Credits
Mathematics	6 credits – Electives – 9 th through 12 th grade <u>Total</u> 6 Credits
Science	2 credits – Science 9 2 credits – Biology 2 credits – Electives <u>Total</u> 6 Credits
Health	1 Credit – Health I
Business Education	2 Credits – Computer Applications I Financial Literacy OR Ag Science I
Physical Education	2 Credits – 1/2 each year for 4 years
Total Required Courses	31
Total Electives	<u>17</u>
Total Credits required For Graduation	48

The South Hamilton Community School District does not discriminate on the basis of race, color, national origin, creed, religion, sex, marital status, age, sexual orientation, gender identity or disability in its educational programs, activities, or disciplinary procedures.

Inquiries regarding compliance with equal education opportunity shall be directed to the compliance officer by writing to Ken Howard, Superintendent, Title IX, Title VI and Section 504 Compliance Officer, South Hamilton Community School District, 315 Division Street, Jewell, Iowa 50130; or by telephoning him at 515-827-5479; or by writing to the Director of the Region VII office of Civil Rights, Department of Education, Kansas City, Missouri. Further information and copies of the procedures for filing a grievance are available in the central administrative office and the administrative office in each attendance center.

Future Planning

This is the 2017-18 Course Description Guide, which contains information about courses offered during the next school year. Many exciting course opportunities exist at the high school level.

The middle and high school years are viewed as a critical time that can determine the student's future. Every spring, thousands of students make very important career choices when they register for next year's classes. Many times these choices are made without much thought for the future or the student's intentions or aspirations.

Each time students select a high school subject, they open the door to a career opportunity. Each time they do not take a subject, they could be closing a door to a career opportunity. The courses selected in school provide the educational foundation to build your occupational or career choices.

Research has shown that career planning is a complex lifelong process. From being a kindergartner learning about the workplace from his/her parents, to the career management of economic changes in jobs or employment, to the later years of choosing a retirement career or interest, a person needs to think proactively about skills and knowledge needed to be economically viable and valuable. Planning thoughtfully with input from others who are aware of your assets and strengths is the focus of career planning.

You can assist your student through the following suggestions:

1. Discussing strengths and weaknesses that you see in your student. This helps your student better identify his/her interests, abilities, and talents.
2. Before entering high school, students should be thinking about their future career choice and which plan of study they will need: College/University, Community College, Technical College.
3. Next, students working with their parents and counselor should maintain a four-year plan (developed in 8th grade) of courses to be taken during high school. This should include courses to meet graduation requirements, career-goal requirements, and special interests and needs. This plan is reviewed and updated yearly.
4. Before choosing courses, students and parents should carefully read through the course offerings. Questions about the courses should be addressed to the advisors, teachers, or counselor. Classes should be chosen thoughtfully, as students will be expected to take the classes they select and remain in them for the duration of the course. South Hamilton encourages all students to enroll in challenging courses. If students need to change from one academic course to another, they may do so during the first week of each year. To make a change, a student must talk with the high school counselor within the first three days of the semester.
5. Sharing information about careers and your work experiences.
6. Making arrangements for your student to talk to other knowledgeable people about careers that are of interest to him or her.

This booklet, along with consultation of the staff, is meant to be a resource. The courses a student takes in high school are an important consideration in being accepted for post-secondary study or work. It is crucial that a student gives consideration to potential careers, researches the requirements of these careers, and takes courses that are required or helpful. Selecting a career pathway is a process being used to aid the student in preparing for his or her future.

Academic Policies

Requirements for Graduation

Students must be enrolled in **six classes plus Physical Education** each semester. Students must successfully complete the 48 credits necessary for a South Hamilton diploma in order to graduate. This must be done at an established date set by the administration in order to participate in the graduation ceremony.

Early Graduation

Seniors may elect to graduate a semester early if all graduation requirements have been met. This option should be planned before the junior year and involves a brief meeting with administration. Applicable PE requirements will be waived.

Physical Education

Juniors and Seniors may be excused from physical education credit for one semester if he or she is participating in a school-sponsored athletic activity. The student must complete the sport season or will be enrolled in a physical education course. Freshmen and sophomores are required to enroll and pass PE each year. Students will repeat all failed physical education courses.

Project Courses

A student may take one project course per year per department. The student must have permission from the instructor, counselor, and principal.

Post-Secondary Enrollment Options Act

Chapter 261c of the Iowa Code provides the opportunity for students to attend a post secondary education institution on a part-time basis while attending South Hamilton High School. The Post-Secondary Enrollment Options Act is intended to promote rigorous academic pursuits and provide a wider variety of options for high school students. Those who qualify are in the 9th or 10th grade (who have been identified by the District as gifted and talented) and students in 11th or 12th grades are eligible to participate in the post-secondary enrollment plan. Students must be enrolled only part-time in the post-secondary institution and must continue to be enrolled in courses (including physical education) at South Hamilton High School. If all conditions are met, the District shall pay for each eligible course directly to the post-secondary institution up to \$250.00 for tuition, textbooks, materials, and fees. If a student is interested in this program, see the counselor this school year. * See **“Senior Year Plus Requirements” starting on page 45.**

Concurrent Credit

Concurrent credit courses will be applied as elective credit towards graduation on a student’s high school transcript. Students cannot enroll in courses that are “comparable” to high school course offerings and are limited to “part-time” enrollment at the post-secondary institution. Iowa Central and Des Moines Area Community Colleges are required to establish academic progress standards for students who are federal and state financial aid applicants or recipients. This policy ensures that any students who receives or applies for financial aid is making progress toward a degree. The student’s total academic history is

monitored regardless of whether he/she has previously received financial aid *including college level course work completed in high school*.

Academic Eligibility For Extracurricular/Co-curricular Activities

7-12: Eligibility will be based upon each grading quarter. Students must have passed all courses taken to be eligible for the next grading period. If all classes are not passing, the student will become immediately ineligible for all school activities for 30 calendar days. Special Education staffing teams will meet to determine eligibility of special education students if the need arises.

9-12: ATHLETICS: The following requirements are set by the Iowa Department of Education, Iowa High School Athletic Association, and the Iowa Girls High School Athletic Union effective 7-1-2008:

- A student must receive credit in at least 4 subjects at all times.
- A student must pass all and make adequate progress toward graduation to remain eligible.
- If a student is not passing all classes at end of a final grading period, student is ineligible for the first period of 30 consecutive calendar days in the interscholastic athletic event in which the student is a contestant. There is no requirement that the student competed in the sport previously. Students in baseball or softball have the same penalty as all other students.
- If a student is not passing all courses at any check-point (if school checks at any time other than the end of a grading period), the period of ineligibility and conditions of reinstatement are left to the school.
- Schools must check grades at the end of each grading period; otherwise, a school determines if and how often it checks grades.

South Hamilton Community Schools checks for eligibility at the end of each grading quarter. If failing, students and coaches/sponsors will be notified.

- A student with a disability and an IEP is judged based on progress made toward IEP goals.
- The ability to use summer school or other means to make up failing grades for eligibility purposes is not available. The rule now also requires that all original failing grades (even those remediated for purposes other than athletic eligibility) be reported to any school to which the student transfers.

Agriculture Education

Grade				Course Offered	Name of Course	Prerequisite
9	10	11	12			
X	X			Fall	Ag Science and Technology I	None
	X	X	X	Spring	Animal Science	Ag Science I
		X	X	Spring	Ag Business	Ag Science I
	X	X	X	Fall	ICCC Crop Production	Ag Science I
		X	X	Fall and spring	ICCC Welding	Manufacturing Tech
	X	X	X	Fall	Ag Power and Paint	This is a blocked course
	X	X	X	spring	Natural Resources	None
	X	X	X	Fall	Plant Science I	None
	X	X	X	Spring	Greenhouse Management	Plant Science I
		X	X	Spring	Ag Leadership	None
		X	X	Fall or spring	Ag Project	Instructor approval

State Law: One Ag Education semester class per year must be taken to be a FFA member.

Ag Science and Technology I	One Semester	Grades: 9-10
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This is an introductory course for students interested in agriculture. Units covered in the first semester will be: Introduction to FFA and parliamentary procedure, Plant Science, Animal Science, Ag Business and Ag Technology. All freshmen FFA members should plan to take this course fall semester.

Animal Science I	One Semester	Grades: 10-12
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This course is for people interested in animals or those preparing for careers in animal care. Animal production, care, nutrition, and various animal species will be covered.

Ag Power and Paint	One Semester	Grades: 10-12
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Credits: 2

Class size limit: 12 students

This class will disassemble and assemble brand new small gas engines. Students will learn tools, how an engine works and how to maintain a small gas engine. After the basic engine information, students will learn how to repair metal and prepare it for painting. We will cover a unit on painting where students will learn automotive paints and primers and powder coat paints. Students planning on taking Ag project 2nd semester will be allowed to start restoring a tractor.

ICCC Beginning Welding	One Semester	Grades: 11 – 12
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Credit: 1/high school and 3/college

Prerequisite: Manufacturing I

Class size limit: 12 students

The Beginning Welding course offers students instruction in flat position welding. The welding process covered includes Shielded Metal Arc Welding (AC-DC), Gas Metal Arc Welding (MIG), and Oxy-Acetylene Welding. TIG Welding, and Plasma Cutting will also be introduced. At the completion of the required welds and bookwork, metal projects will be constructed.

Ag Business	One Semester	Grades: 11-12
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This course will cover many different aspects of running a business. Credit and financial management will be covered with topics in finance, depreciation, interest, and credit forms. Job search and interviewing will be covered along with a unit in sales. Students will do some business simulations on computer spreadsheets. Various business forms will also be covered. Some time will be spent on commodities and marketing as well as basic ag economics.

Natural Resources	One Semester	Grades: 10-12
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Natural Resources is a class that will examine the outdoors and the environment. This class will cover units in: soil conservation & management, air, water & soil pollution, fish and wildlife resources, and outdoor recreation.

Ag Project Class	One Semester	Grades: 10-12
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Ag project class is a class for students that want to work on a project. Instructor approval is required. If a student wants to build something out of metal, he or she must have taken ICCC Intro to Welding previously. If the student wishes to restore a tractor or lawn mower, he or she must have taken a small engine class prior to enrolling in the project class.

ICCC Crop Production	One Semester	Grades: 10-12
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Credit: 1 HS/3 College

The course is a study of principles of plant, soil, and climate relationships and their impact on crop production and animal food supply worldwide. Other topics covered are plant identification, anatomy and growth, as well as tillage and planting, pest control, harvesting and storage.

Plant Science	One Semester	Grades: 10-12
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This is an introductory course that will allow students hands-on experience in growing plants. Topics will include an overview of horticulture careers, plant propagation, soil & fertility, basic plant management, and integrated pest management. Preference will be given to juniors and seniors.

Greenhouse Management	One Semester	Grades: 10-12
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Prerequisite: Plant Science

This course will deal with all aspects of growing plants and flowers in a greenhouse. There will be plenty of hands-on experience as students will be propagating plants, and learning the business of marketing plants. Grading will be both test and project based. Enrollment in this horticulture class is very limited.

Ag Leadership	One Semester	Grades: 10-12
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Students in this course will focus on the qualities of leadership that will allow them to become positive leaders in their careers and community. Units covered include leadership training, parliamentary procedure, agricultural resumes, FFA Officer responsibilities, and agricultural presentations. A large part of this course will focus on planning, organizing, and presenting agricultural demonstrations and presentations. FFA Officers are encouraged to sign up for this class to help perform their duties as described in the FFA Handbook.

Art Education Electives

Grade				Course Offered	Name of Course	Prerequisite
9	10	11	12			
X	X	X	X	Fall and spring	Basic Design	None
X	X	X	X	Spring	Ceramics	None
X	X	X	X	Fall	Painting	None
X	X	X	X	Fall and spring	Digital Photography	None
X	X	X	X	Fall and spring	Drawing	None

Basic Design	One Semester	Grades: 9-12
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Basic Design is the beginning art class for high school students. We will study elements and principles of design. Students will explore many materials to create with.

Ceramics	spring Semester	Grades: 9-12
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Ceramics is the study of three dimensional shapes and forms. Students will create sculptures and pottery from clay.

Painting	fall Semester	Grades: 9-12
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Painting is an advanced art class that works with drawing and painting. Student work will come from assigned projects and student ideas. We work with tempura, acrylic, watercolor, and oil painting. Students will create landscapes, realistic and abstract drawings and paintings.

Digital Photography	One Semester	Grades: 9-12
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This class is an introduction to working digitally with photographic compositions in the context of an art class. In it students will learn to use digital cameras to produce images, which show concepts such as: Leading Line, Rhythm, Framing, Informal and Formal Balance, Silhouette, and Distance. The students will also learn to manage their photos in a Google Presentation.

Drawing	One Semester	Grades: 9-12
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This class is a course introducing basic methods, media, and concepts. Emphasizes drawing from observation with development of value, negative/positive space and shape, composition, line, edge development, and perspective. Students will explore using drawing media such as pencil, charcoal, pastels oil pastels, colored pencils, and ink.

Business Education							
Grade				Course Offered	Name of Course	Prerequisite	
9	10	11	12				
X				One semester	Financial Literacy	Required	
X	X	X	X	One semester	Computer Applications	Required	
X	X	X	X	Spring semester	Computer Applications II	Computer Applications I	
X	X	X	X	One semester	Business Management	None	
	X	X	X	One semester	Business Law	None	

X	X	X	X	One semester	Business Math	None
X	X	X	X	One semester	Personal Record Keeping	None
X	X	X	X	Year-long	Yearbook	None
X	X	X	X	Year-long	TV Mass Media	None
X	X	X	X	One Semester	Sports and Entertainment Marketing I and II	None
X	X	X	X	One Semester	Graphic Communications	None
	X	X	X	One semester	Accounting	None
		X	X	One semester	ICCC Photoshop I	Must attend informational meeting
		X	X	One semester	ICCC Dreamweaver	Must attend informational meeting

Financial Literacy	One Semester	Grade: 9
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The intent of managing your personal finances is to inform you of your various financial responsibilities and to provide you with opportunities for self-awareness, and financial satisfaction in a highly technical and competitive society. Personal finance class will help you learn to maximize your earning potential, develop strategies and explore your skills that will help you improve your financial literacy. Most importantly this class will help investigate your own interest, so that you will understand your own financial potential.

Business Law	One Semester	Grades: 10-12
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You will soon find that business law is one of your most valuable subjects. You will study true situations that show how business and personal law impact not only business, but also the lives of young people and adults as well. The learning package will help you achieve an understanding of legal principles you will use throughout your life. In this class we will analyze legal situations, study real world cases, and study ethical situations.

Business Math	One Semester	Grades: 10-12
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The study of business math is a practical approach to learning math. In studying business math, you learn basic math skills that will be useful throughout your life. Checking a sales slip, balancing a checking account, and understanding the various ways interest is charged on loans are just a few of the many practical skills you will learn in this class.

Computer Applications I	One Semester	Grades: 9-12
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Mastery of the keyboard on the computer, including numbers and special symbols, is stressed, as well as proofreading. Basic areas of study include personal and business letters, centering, tabulating, memorandums, and one-page reports. Students will spend time completing modules that demonstrate competency in Google Docs as well as Microsoft Word. Half of the course will be spent using Chrome Books and the other half PCs.

Computer Applications II	One Semester	Grades: 9-12
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This second semester course is recommended for anyone going on to college or who intends to use the computer skill in his or her profession. Although this course is usually regarded as a career offering, it will and should be taken by students who desire greater skill for their personal use than they have been able to build in one semester. Typical units to be covered are basic skills, manuscripts, themes, outlines,

reports with footnotes or endnotes, business letters, tabulations, rough drafts and composition on the computer. Careful proofreading and neat, accurate, usable copy are standards to be achieved on all units.

Business Management	One Semester	Grades: 9-12
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This class offers a comprehensive coverage of business management content including production and operations management in a realistic, investigative, and enriching manner. All of the functions of business management are covered extensively including the use of technology and communication as tools of business. We will relate the content of this class to restaurant management. Many of our assignments and projects will consist of analyzing and diagnosing problems as well as implementing solutions to save the restaurant from closing.

Personal Record Keeping	One Semester	Grades: 9-12
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Record keeping classes provide a basic understanding of the procedures involved in recording personal financial transactions. Emphasis will be placed on personal banking, budgeting, income tax, and daily math skills, all needed to be a productive member of society. This class will teach students the importance of organization and control of financial information.

Yearbook	One Semester	Grades: 9-12
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Credit: 1

Prerequisite: Permission of the Instructor/Counselor

This course designed to accommodate individual needs at different interest levels. Students may be involved in photography, layout, cropping, caption and headline writing, tagging, indexing, interviewing, and advertising. Students are expected to demonstrate dependability, a good work ethic, and the ability to work on their own to meet deadlines.

TV/Media	One Semester	Grades: 10-12
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Credit: 1

Prerequisite: Permission of the Instructor/Counselor

Digital Media is the process of planning, instructional design, and development. Digital Media I is the first- year digital media course where students will create and learn using elements of text, graphics, animation, sound, video, and digital imaging to create digital computer applications to be delivered on CD-ROM, Internet or other media. These skills will prepare students for entry-level multimedia positions and will provide fundamental digital media understandings and skills beneficial for other occupational/educational endeavor.

Sports Entertainment And Marketing	One Semester	Grades: 9-12
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The field of sports and Entertainment marketing is growing rapidly. Many college's universities, and high schools offer a specialization in this field and we will explore this through the use of marketing. Sports and Entertainment continues to be a foundation of marketing in education. This class uses a wide array of entertainment topics to emphasize the market core such as:

- Channel Management
- Marketing-Information Management
- Market Planning
- Pricing
- Product/Service Management
- Promotion
- Selling

We also use an online simulator to practice the marketing mix. Students will manage their own football stadium and book games as well as concerts and other entertainment events. This real life simulation allows students to have fun as well as learn.

ICCC Dreamweaver I	One Semester	Grades: 11-12
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Credit: 1/high school 3/college

*Prerequisite: **Permission from Counselor/Instructor***

This course integrates Fundamentals of Web Design curriculum with the hands-on training using Adobe production software (Photoshop, Dreamweaver, and Illustrator). During the semester, students will study both the online curriculum and the accompanying labs. They will develop individual websites using the Adobe software.

ICCC Photoshop I	One Semester	Grades: 11-12
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Credit: 1/high school 3/college

*Prerequisite: **Permission from Counselor/Instructor***

Get a thorough grounding in Adobe Photoshop and Adobe ImageReady, the must-have digital imaging programs for today's web and print designers. Hands-on projects include working with layers, making selections, incorporating color technique, creating special effects with filters and more. Create complex web graphics such as rollovers and animations.

Graphic Communications	One Semester	Grades: 9 - 12
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This course will provide the student with instruction in basic skills in math, measurement, technology, graphic arts, problem-solving, and decision-making. The topics will be reinforced through hands-on activities involving black and white photography, screen-printing and sign making techniques, computer applications, and methods of organizing and starting a small business.

Family and Consumer Science

Grade				Course Offered	Name of Course	Prerequisite
9	10	11	12			
X	X	X	X	fall and spring	Food for Life I	None
	X	X	X	spring	Food for Life II	Food for Life I
		X	X	fall	Foods III	Food for Life I
	X	X	X	fall	Pastries	Food for Life I
		X	X	spring	International Foods	Food for Life I
X	X	X	X	fall	Interior Design and Housing	None
X	X	X	X	spring	Independent Living	None
X	X	X	X	fall	Fashion	None
X	X	X	X	spring	Child Development and Parenting	None

Food for Life I	One Semester	Grades: 9-12
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This course places an emphasis on cooking basics and food choices for good nutrition and personal health. Students will learn fundamental cooking techniques and nutrition basics. Units of study will include kitchen management, food safety and sanitation, measurement, food preparation techniques, kitchen equipment, food etiquette and table manners and preparation of various foods. Classroom activities include learning about and preparing a variety of foods using Choose My Plate as a guide.

Food for Life II	One Semester	Grades: 10-12
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Prerequisite: Food for Life I

Students will demonstrate independence and be encouraged to further develop cooking skills and gain independence in choosing recipes using Choose My Plate as a guide. Units of study include a review in kitchen management, and meal planning principles. Specific labs will include the food groups on Choose My Plate. Menu planning will be the main focus. Current issues in nutrition and new food products will be discussed.

Pastries	One Semester	Grades: 9-12
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Prerequisite: Food for Life I

Students will develop cooking and baking skills in the pastried field. Units will develop specific skill when it comes to baked products. Current trends in the Food industry will be discussed.

Foods III	One Semester	Grades: 10-12
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Prerequisite: Foods I

Students in this course will learn what it takes to set up a business (restaurant). General business skills such as planning, ordering, advertising, and final prep work will be learned. A restaurant setting, "Hawk Cafe" will be set up and opened for business.

International Foods	One Semester	Grades: 9-12
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Prerequisite: Food I

Students taking this class will have the opportunity to learn about cuisine from other countries. Cultures will be researched and dishes prepared. Students will learn the similarities and differences between American cuisine and those from other countries.

Fashion	One Semester	Grades: 9-12
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Discover how fashion tells us a story about the social and cultural changes occurring in America. This course details what fashion has to do with past and present cultures, technology, and more. It gives the student an opportunity to study style, fashion, and clothing design. Students will learn about the importance of clothing in their lives and learn how individual clothing decisions are made. Units include history of fashion, elements and principles of design, fibers and textiles, planning/purchasing a wardrobe and accessories, and dressing for success.

Interior Design and Housing	One Semester	Grades: 9-12
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This course teaches students how to read and draw floor plans, design a kitchen, evaluate traffic patterns, create room arrangements, coordinate color and design of furniture, window, wall and floor treatments, and plan individualized living spaces. Furniture styles and selection will be studied along with design using line and color. Students will learn to recognize house styles, examine options in choosing places to live, and evaluate renting and buying considerations.

Independent Living	One Semester	Grades: 9-12
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This course is designed for the young adult preparing for a future life independent of parents and family, and will furnish students with the skills needed for personal and family resource management for now and the future. The course address a wide range of topics including: establishing goals, decision-making, finding and furnishing a place to live, money management/budgeting, planning for major purchases, balancing checking and savings, bill paying, establishing credit, consumerism, basic cooking skills, laundry and clothing selection and maintaining healthy life practices.

Child Development/Parenting	One Semester	Grades: 9-12
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This course is recommended for students considering careers involving children (parent, teacher, counselor, social worker, nurse, child care provider or nursery school instructor). It examines prenatal development, preparing for birth and the baby's arrival, physical, intellectual, social and emotional development of children in the first year of life. Other units of study include the roles and responsibilities of effective parenthood, as students explore the areas of building strong families, having a healthy baby, life with a newborn, and building positive parent-child relationships.

Health and Physical Education

Grade				Course Offered	Name of Course	Prerequisite
9	10	11	12			
X				Fall and spring	Health I	Required
	X	X	X	Spring	Health II	Health I
X	X			Year long	Physical Education	Required
		X	X	Fall or spring	Physical Education	Required for one semester if out for a sport

Physical Education	One Year	Grades: 9-12
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Required

Credit: .5 per year

Prerequisite: None

This course is designed to provide a variety of physical, mental and social activities. The program introduces students to a wide variety of activities in rhythm, games, team sports, and lifetime activities. The activities are designed to carry over into wise use of leisure pursuits in school and during the student's lifetime. Emphasis is placed on getting along with each other as students grow physically, socially and emotionally.

Students should wear soft, white-soled shoes during PE. Since state law requires physical education, all students at South Hamilton are required to participate, unless excused by a doctor.

Health I	One Semester	Grade: 9
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Required

Credit: 1

Prerequisite: None

This required course covers many units related to health and wellness. The following units are covered: Basic first aid, nutrition, fitness, maintaining healthy weight, tobacco, alcohol, medicine, and drugs, stress management, and injury prevention. Two days is spent on CPR.

Health II	One Semester	Grades: 9-12
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Prerequisite: Health I

This elective course addresses many topics important to future health including communicable diseases, non-communicable diseases, Sexually transmitted infections, and two body systems- skeletal and muscular, and cardiovascular and respiratory. This course is for a student that is interested in exploring the Career Pathways and learning medical terminology.

Industrial Technology Education

Grade				Course Offered	Name of Course	Prerequisite
9	10	11	12			
X	X			Fall	Intro to Drafting	None
	X	X	X	Fall and spring	Manufacturing Tech	Intro to Drafting
	X	X	X	Fall and spring	Woodworking	Intro to Drafting and Manufacturing Tech
	X	X	X	Fall	Advanced Manufacturing	Manufacturing Tech
	X	X	X	Fall and spring	Energy and Power	None
	X	X	X	Spring	Basic Home Maintenance	None

Intro to Drafting	One Semester	Grades: 9-12
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This course will review basic drafting, introduce architectural drafting, provide some experience with computer aided drafting, and provide students with the necessary skills to develop detailed plans for manufacturing with wood, metal, or other material.

Manufacturing Technology I	One Semester	Grades: 9-12
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Prerequisite: Intro to Drafting

Manufacturing Tech I contains information about the tools, materials, and processes used in manufacturing. The course will stimulate student thinking and problem-solving skills through a variety of hands-on activities. Basic learning skills related to math, language arts, and science are reinforced throughout this course.

Advanced Manufacturing Tech.	One Semester	Grades: 11-12
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Students will have opportunities to learn general business functions such as planning, supply ordering, marketing, accounting, and customer relations. They will organize and operate a business in which they will design, produce, and market a product using CAD, CNC, and vinyl cutting.

Basic Home Maintenance/Repair	One Semester	Grades: 10-12
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The course teaches the students the skills and techniques used in carpentry, masonry, plumbing, electrical wiring, and other building trades, as related to home repair activities will include trouble-shooting and repair procedures for homes and appliances. Some of the topics covered include roof repair, walls, floors, furniture, heating and cooling systems, and many more. A section will be taught during the summer if enough students are interested.

Energy, Power, & Transportation Technology	One Semester	Grades: 9-12
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This course has been developed to give students technological literacy, career exploration, and problem-solving skills dealing with energy, power, and transportation. Each unit of instruction will have hands-on activities to enhance learning. The units will cover energy auditing, low-pressure steam, turbine construction, disassembling and reassembling a four cycle, one cylinder engine, robotics, fluid power, and designing and constructing a CO2 model racer.

Wood Working	One Semester	Grades: 9-12
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This course in woodworking is a basic course for learning about tools, machines, materials, and processes used when working with wood. Each student will learn about hand and power tools as well as power machines used to make wood products. Students will make a working drawing, bill of materials, and design of a project of their choosing.

Language Arts

Grade				Course Offered	Name of Course	Prerequisite
9	10	11	12			
X				Year long	Language Arts 9	Required
	X			Year long	Language Arts 10	Required
		X		Year long	Language Arts 11	Required
	X	X	X	One semester	Intro to Speech	None
			X	One semester	Practical English	None
		X	X	One semester	Contemporary Literature	None
			X	Year long	College Prep	Approval of the instructor
			X	Year long	AP English	Approval of the Instructor
			X	Fall semester	ICCC English 105	Mandatory placement score on the ACT, Iowa Assessments or Accuplacer
			X	Spring semester	ICCC English 106	English 105 with a "C" or better
		X	X	One semester	ICCC Creative Writing	Proficiency on the Iowa Assessments
X	X	X	X	One semester	Reading Skills	Approval from instructor

Language Arts 9**One Year****Grade: 9**

This class emphasizes the basic fundamentals of communication: reading, writing, speaking, and listening. Specific units to be covered include a Shakespearean drama, 6+1 Writing Traits, mythology, short stories, historical fiction, the research process, and various papers and speeches. In addition, this class includes multiple activities that promote positive interaction among peer groups.

Language Arts 10**One Year****Grade: 10**

Language Arts 10 continues with the study of literature, both fiction and nonfiction, as well as communication skills. Units included debate, nonfiction, classic literature, and a Shakespearean tragedy. Grammar reviews, speeches, and research projects are integrated into literature and writing units.

Language Arts 11**One Year****Grade: 11**

This course revolves around the chronological study of American literature. Students will read, discuss, and write about the literature. Two formal research projects will be required.

Practical English**One Semester****Grade: 12**

Practical English is an elective offered to 12th graders who wish to review and improve basic communication skills. Students will engage in reading, writing, and speaking activities to enhance their employability skills.

College Prep**One Year****Grade: 11, 12**

Prerequisite: Approval of the instructor

As the title states, this course is designed to prepare students for their college classes that require writing. They will write several kinds of essays, including a formal research paper. Students will also read and discuss some works by Shakespeare, Chaucer, and other British authors.

Contemporary Literature**One Semester****Grade: 11, 12**

Students will read different genres of literature written by authors during the 20th Century (post WW II). Students will analyze literary aspects as well as develop an appreciation for literature to become life-long readers.

AP English**One Year****Grade: 12**

Prerequisite: Approval of the Instructor

Advanced Placement (AP) English offers to students excellent reading and writing experiences valuable in preparing for demanding educations. Throughout the course, preparation for Advanced Placement testing will be considered. If a student's score on the test is high enough, he/she may receive college credit.

Intro to Speech**One Semester****Grades: 10 - 12**

Intro to Speech is a semester-long course designed for high school students who wish to develop effective communication for social and professional life. The class will prepare students for college and their careers. Students will develop an understanding of the communication skills needed for successful group interactions and individual presentations. Students will be provided with opportunities to increase their fluency and self-confidence as a speaker. The course covers multiple aspects of public speaking and gives the student practical experience through participation. The course includes a study of poise, use of body and voice, public speaking, oral interpretation of literature and beginning argumentation.

ICCC English 105	One Quarter	Grades: 11 - 12
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*Elective**Credit: 1 High School/ 3 College**Prerequisite: Mandatory placement score on ACT, Iowa Assessments, or Accuplacer*

This course focuses on the process of writing expressive and informative prose. It introduces library research skills and critical thinking skills.

ICCC English 106	One Semester	Grades: 11-12
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*Credit: 1 High School/ 3 College**Prerequisite: English 105 with a "C" grade or better or equivalent*

This course is a continuation of English 105 with advanced work in library research techniques. The major focus is on persuasive and argumentative writing with an emphasis on critical thinking skills.

ICCC Creative Writing	One Semester	Grades: 11-12
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*Credit: 1 high school/3 college**Pre-requisite: Must be proficient on Iowa Assessments*

This course will cover the essentials of three creative writing genres: the short story, poetry and its elements, and creative non-fiction. Students will review various examples of professional authors and will produce their own creative work.

Reading Skills	One Semester	Grades: 9-12
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Credit: 1

Reading fluency and comprehension of various texts is a fundamental and life-long skill. Students that do not score proficiency on reading portion of the Iowa Assessments are identified and enrolled in this reading skills course. This class is designed to incorporate extensive independent reading at students' recreational level; vocabulary development at both age-appropriate and recreational reading levels;

comprehension instruction for both lower and higher-order comprehension tasks in fiction and non-fiction materials; fluency instruction and monitoring; and writing as an assist to comprehension.

Mathematics							
Grade				Course Offered	Name of Course	Prerequisite	
9	10	11	12				
X				Year long	Pre-Algebra	Recommendation	
X	X			Year long	Algebra I	Recommendation	
X	X			Year long	Algebra A	Recommendation	
	X	X	X	Year long	Algebra B	Successful completion of Algebra A	
X	X	X	X	Year long	Geometry	Successful completion of Algebra I or Algebra A and B	
	X	X	X	Year long	Algebra II	Successful completion of Algebra I and Geometry	
		X	X	Year long	Pre-Calculus	Recommendation	
			X	Year long	AP Calculus	Recommendation	
		X	X	Year long	Vocational Math	Recommendation	
		X	X	Year long	Statistics	Successful completion of Geometry	

Note: The math course sequence for each student is based on teacher recommendation, and takes into consideration a variety of factors: math skills, grades (test and homework scores), work ethic, and Iowa Assessment results. Three years of math are required to meet graduation requirements. There is not a specific course requirement such as Algebra. Rather, students and parents, in conjunction with the teacher recommendation, need to determine what is best for their high school and post-secondary plans. Students must follow the sequence and will not be awarded credit twice for the same course.

Pre-Algebra	One Year	Grade: 9
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Credits: 2

Prerequisite: Recommendation by Middle School teacher

Pre-Algebra first semester focuses on percents, decimals, fractions, and story problems will be reviewed and applied through everyday living situations. The topics of arithmetic operations, measurement skills, geometry, data handling, simple statistics, and the use of algebraic formulas are explored in semester 2.

Algebra I	One Year	Grades: 9-12
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Credits: 2

Prerequisite: If coming from 8th grade, recommendation by MS teacher, Iowa Assessment results, and Algebra Concept exam.

This course includes the study of positive and negative numbers solving of equations and systems of equation and their applications, solving of inequalities and systems of inequalities and their applications, manipulations of polynomials and quotients of polynomials, quadratic equations and their solutions and applications, two-dimensional graphs, some relations and functions, verbal problems, exponents and radicals, and graphing technology. This course is required for further work in mathematics.

Geometry	One Year	Grades: 9-12
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Credits: 2

Prerequisite: Successful completion of both semesters of Algebra I

Geometry is a study of figures in two and three dimensions. Students will practice in logical thinking and through this experience see the common and different properties in studying lines, segments, rays, angles, planes, polygons, congruence, parallelism, perpendicularity, similarity, and circles. Basic algebraic skills are reviewed and strengthened as algebraic methods are applied to solving problems in geometry. In addition to the basic development of geometry, the course includes an introduction to trigonometry, area and volume, and constructions.

Algebra A	One Year	Grades: 9-12
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Credits: 2

This year-long course includes the following units: Expressions, Equations and Functions; Linear Equations; Linear Functions; Equations of Linear Functions and Linear Inequalities.

Algebra B	One Year	Grades: 10-12
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Credits: 2

Prerequisite: Algebra A

This two-semester will cover the concepts of Systems of Linear Equations and Inequalities; Exponents and Exponential Functions; Quadratic Expressions and Equations; Quadratic Functions and Equations; Radical Functions and Geometry; Rational Functions and Equations; Statistics and Probability.

Algebra II	One Year	Grades: 9-12
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Credits: 2

Prerequisite: Successful completion of both semesters of Geometry

This course includes a review of basic materials from earlier work in Algebra I, the study of number systems, polynomials, rational expressions, functions (first-and second-degree), systems of equations, mathematical modeling, exponents, radicals, exponential functions, and conic sections. The use of graphing calculators and associated technology is also incorporated into the course. This course is a prerequisite for Pre-Calculus.

Pre-Calculus	One Year	Grades: 10-12
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Credits: 2

Prerequisite: Successful completion of both semesters of Algebra II

This course includes a review of coordinate geometry, functions and relations (linear, quadratic, and higher degree), circle trigonometry, triangle trigonometry, trigonometric addition formulas, exponents and logarithms, inequalities, probability, and complex numbers, and the use of graphing calculators to solve problems. This course contains a variety of mathematical topics, all of which are good preparation for college courses in calculus, abstract algebra, probability, and related fields of study. It can also serve as a terminal course for students who do not plan to continue their study of mathematics.

AP Calculus	One Year	Grade: 12
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Credits: 2

Prerequisite: Pre-Calculus

This course is offered to those students who have had elementary and intermediate algebra, geometry, and pre-calculus. It includes the study of the straight line, conic sections and other curves, functions, derivatives, applications of the derivative, limits, integration, applications of integration, and transcendental functions. There is a possibility of college credit available through AP examination in May.

Vocational Math	One Year	Grades: 11-12
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Credits: 2

Prerequisite: None

This class is designed to improve basic skills and give experience in solving the mathematic problems found in many career situations. Wages, Taxes, Loans, Insurance, Credit Cards, Housing Costs, and Investments will be covered.

Credits: 2

Prerequisite: Geometry

In this course, students will learn to read, interpret, and understand the meaning of the data used in media reports and other content areas. The course includes study of collection of data, preliminary analysis of data, central tendency, variability, basic probability, normal distribution, correlation, regression, and hypothesis. Semester one focuses on descriptive statistics while inferential statistics is covered in second semester.

Music Education							
Grade				Course Offered	Name of Course	Prerequisite	
9	10	11	12				
X	X	X	X	Year long	Band	None	
X	X	X	X	Year long	Concert Choir	None	
X	X	X	X	One semester	Music Theory I	None	
X	X	X	X	One semester	Music Theory II	None	
High School Band				One Year	Grades: 9-12		

High School band is the final four years of public school instrumental music. The program consists of several organizations such as concert band, marching band, pep band, and other ensembles in which a student might have an interest. The music selected is chosen specifically to broaden the student's appreciation of instrumental music. The band will rehearse 5 days a week and each band member will receive a lesson every six-day cycle.

High School Concert Choir	One Year	Grades: 9-12
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The music and opportunities offered in choir will help broaden the student's appreciation of music and develop performance skills, self-discipline and musical ability, including sight-reading and vocal techniques. The concert choir performs 4 concerts a year. The program consists of several organizations

and opportunities such as Honor Choirs, Festivals and Small and Large Group Contests. The chorus rehearses every day and each member will receive one lesson every six-day cycle.

Music Theory	One semester	Grades: 9-12
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Music Theory I introduces students to musicianship, theory, musical materials, and procedures. The course will integrate aspects of pitch, melody, harmony, texture, rhythm, form, musical analysis, and to some extent, history and style. Musicianship skills such as dictation and other listening skills will be touched upon. This course will incorporate the traditional teacher-student model, online resources and exercises, as well as the Tonal Harmony textbook.

Music Theory II	One semester	Grades: 9-12
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Prerequisite: Music Theory I

Music Theory II continues student's knowledge on music theory concepts from the first semester of music theory study. The course will integrate aspects of Roman numeral analysis, melody writing, form, and to some extent, history and style. Musicianship skills such as dictation and other listening skills will be touched upon. This independent study will incorporate the traditional teacher-student model, online resources, and exercises, as well as the Tonal Harmony textbook.

Other Offering

Cadet Teaching	One Semester	Grades: 11-12
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Credit: 1 (may be taken multiple times)

Cadet teachers work with an assigned teacher one period per day assisting that instructor with all aspects of teaching. This program is particularly appropriate for students interested in a teaching career. Students are expected to create a list of daily tasks to be completed, be responsible and respectful, communicate, enjoy helping others and keep confidentiality. Students may take this course multiple times. There are assignments that require additional time outside of the classroom to complete.

Library Assistant	One Semester	Grades: 9-12
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Credit: 1 (may be taken multiple times)

Do you enjoy reading and helping people? A library assistant is preferred each period of the day to perform a variety of tasks. The student would be trained how to use our library system to check-out books to students, check books back in and correctly shelf books. Regular attendance, ability to maintain confidentiality, and strong work ethic are necessary for this role. A student may elect to earn credit or count the hours towards the Silver Cord.

Project Lead the Way

Project Lead The Way (PLTW) is a national non-profit organization established to help schools give students the knowledge they need to excel in high-tech fields. PLTW courses are designed for students seeking more in-depth, hands-on knowledge of engineering and technology based careers. According to PLTW research, students who go on to be successful engineers and technical workers are not necessarily the best math or science students, nor do they have a consuming passion for computers and all things technological.

What's in PLTW for you?

- * Opportunity to learn math, science, and technology in a hands-on relevant way.
- * Opportunity to explore engineering and other technology-based careers before college.
- * Exposure to the latest computer software and equipment used by industry, colleges, and universities.
- * Projects that teach how to communicate effectively and work as a team
- * Ability to receive college credit from Iowa Central Community College, Iowa State University, and/or University of Iowa.

<i>Introduction to Engineering Design</i>	<i>One Year</i>
<i>Principles of Engineering</i>	<i>One Year</i>
<i>Digital Electronics</i>	<i>One Year</i>
<i>Civil Engineering and Architecture</i>	<i>One Year</i>

Introduction to Engineering Design	One Year	Grades: 9-12
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Credits: 2 High School/3 College

Prerequisite: Algebra I

Teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer-aided design software. This is the introductory course that can be followed up with Principles of Engineering, as a part of the Project Lead the Way curriculum. Students successfully completing this class have the option of paying for and receiving college credit at ISU or U of I upon passing a competency test.

Principles of Engineering	One Year	Grades: 10-12
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Credits: 2 High School/3 College

Prerequisite: Algebra I, Geometry, and Intro to Engineering Design

This course is a continuation of IED and continues to teach problem-solving skills using a design

development process. Models of product solutions are created analyzed and communicated using solid modeling computer-aided design software. This course also explores technology systems and manufacturing processes; addresses the social and political consequences of technology change. Students successfully completing this class have the option of paying for and receiving college credit at ISU or U of I upon passing a competency test.

Digital Electronics	One Year	Grades: 11- 12
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Credits: 2 High School/3 College

Prerequisite: Principles of Engineering and Engineering Design

This course teaches applied logic through work with electronic circuitry, which students also construct and test functionality. This is the third course in the Project Lead the Way curriculum. Students successfully completing this class have the option of paying for and receiving college credit at ISU or U of I upon passing a competency test.

Civil Engineering and Architecture	One Year	Grades: 11-12
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Credits: 2 High School/3 College

Prerequisite: Principles of Engineering

This course introduces students to the interdependent fields of civil engineering and architecture; students learn basic project planning, site planning, and building design. Students successfully completing this class have the option of paying for and receiving college credit at ISU or U of I upon passing a competency test.

Science							
Grade				Course Offered	Name of Course	Prerequisite	
9	10	11	12				
X				Year long	Physical Science	Required	
	X			Year long	Biology	Required	
		X		Year long	Chemistry	Completion of Algebra I	
		X	X	Year long	Physics	Completion of Geometry	

		X	X	Year long	Consumer Science	None
		X	X	Year long	Anatomy and Physiology	Recommendation

Physical Science 9	One Year	Grade: 9
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Physical science will consist of five main units: structure and properties of matter, chemical reactions, forces and interactions, energy, and waves and electromagnetic radiation. The course will strive to make connections to everyday life through a variety of instruction strategies including lecture, classroom discussions, and hands-on activities.

Biology	One Year	Grade: 10
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Biology is the study of life. This course is designed to help you gain knowledge and skills to help and encourage you to make informed decisions that will improve the quality of your life and the world around you. We will explore topics in environmental/ecological studies, biochemistry, genetics and heredity, and biological evolution.

Anatomy	One Year	Grades: 11-12
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*Prerequisite: **Biology and Chemistry; if Chemistry has not been taken, teacher and principal approval must be obtained first.***

This is a two-credit course designed for students interested in pursuing a career in a medically related profession such as medicine, nursing, dentistry, lab technician, veterinary medicine, or EMT. Through lecture, lab activities, discussion, classroom assignments, and dissection, the student will investigate the structure and function of the human body. The anatomy (physical structure) and physiology (how it functions) of the human body systems will be studied; this will also include diseases and malfunctions of the individual systems.

Chemistry	One Year	Grades: 11 – 12
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*Prerequisite: **Biology, Algebra I***

Chemistry is a college prep course that studies matter and the changes it undergoes. Specific topics include matter and change, measurements and calculations, atoms, electrons, periodic table, chemical bonding, naming chemical compounds, solving chemical equations/reactions, and solutions/acids/bases. Through lecture, discussion, problem solving, and lab activities, the student will gain a solid background of introductory chemistry.

Physics	One Year	Grades: 11-12
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*Prerequisite: **Geometry***

Physics is a college prep course designed to help prepare students for college courses in the physical sciences. The course is also designed to explain how and why many common day-to-day experiences

happen. The main areas of study are mechanics, heat and energy, light, sound, and electricity. Inquiry, design and experimentation are included.

Consumer Science	One Year	Grades: 11-12
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Prerequisite: Successful completion of Science 9 and Biology

This is a hands-on, projects based course that presents the basic concepts of science and examines the role of science in every day life. Consumer science is designed to meet a wide range of interests for students who want to explore the world around them.

This course will not meet a third year science requirement at most colleges or universities.

Social Studies							
Grade				Course Offered	Name of Course	Prerequisite	
9	10	11	12				
	X			Year long	World History	Required	
		X		Year long	American History	Required	
			X	Year long	Government	Required	
		X	X	One semester	Current Affairs I and II	None	
		X	X	One semester	Contemporary US History	None	
	X	X	X	One semester	Intro to Sociology	None	
			X	Fall semester	Western Civilization I	Must be proficient on the Iowa Assessments	
			X	Spring semester	Western Civilization II	Completion of Western Civilization I	

World History	One Year	Grade: 10
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In western world history several key periods will be studied: Greece in the 5th century B.C., Rome in the first and second century A.D. Many visual experiences, group workings, some plays, and of course, daily assignments based upon readings will guide the study. In the second semester of world history, major themes in western history and a selected country in eastern history will be studied in the West, beginning with the impact of the Renaissance, the Reformation and Periods of Revolution, and ending with Imperialism and WWI.

American History	One Year	Grade: 11
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In this class we begin with the study of the Puritans and travel through history as far as time permits. We usually end with a brief study of Vietnam. Class discussions, research projects, written activities, and films/videos comprise the learning activities of the course.

Government	One Year	Grade: 12
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The purpose of studying government is to better educate the student as a citizen of our state and nation. Areas included in the study of government are the constitution, the courts, the election process, the Presidency and Foreign Relations, and the legislature. These four areas place an emphasis on the citizen, how one can get involved, how our nation behaves in the international arena, how we influence our governmental representatives, and why we behave politically the way we do. As part of this course, students will also study basic economic principles and their impact on the world.

Current Affairs	One Semester	Grades: 11-12
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Various Internet media sites will be the foundation upon which the current happenings in the world will be studied. Daily news reporting, Internet connections to the world, the use of various television news sources, and small group discussions will form the basis of the class. This class may be taken twice.

Contemporary U.S. History	Second Semester	Grades: 11 – 12
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The purpose of this course is to study in depth the changes the United States has gone through since the end of WWII to the present. The main focus of the course will be on the social, political, and foreign policy changes of the United States. Themes that will be analyzed and discussed are the Cold War, lifestyles of the 50's, Civil Rights Movement, Vietnam War, war protests, Watergate, economic and social changes of the 70's, terrorism, Reagan Era, and Persian Gulf War.

Intro to Sociology	One Semester	Grades: 10 – 12
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Intro to Sociology is an elective one-semester course that is intended for students who like to think deeply about them and the people around them. Much of the emphasis is on culture.

ICCC Western Civilization I	One Semester	Grade: 12
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Elective

Credit: 1.33/high school 4/college

*Prerequisite: **Must meet proficiency requirements***

From Stone Age to the Age of Exploration is a study of the major political, socio-cultural, economic, and philosophical movements in the Western world from the Stone Age to the Age of Exploration.

ICCC Western Civilization II	One Semester	Grade: 12
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Elective

Credit: 1.33/high school 4/college

*Prerequisite: **Must meet proficiency requirements***

A study of the major political, socio-cultural, economic, and philosophical movements in the Western world from the Age of Exploration to the present.

World Language							
Grade				Course Offered	Name of Course	Prerequisite	
9	10	11	12				
X	X	X	X	Year long	Spanish I	None	
	X	X	X	Year long	Spanish II	Completion of Spanish I	
		X	X	Year long	Spanish III	Completion of Spanish II	
			X	Year long	Spanish IV	Completion of Spanish III	

X	X	X	X	Year long	French I	Must be self-motivated
	X	X	X	Year long	French II	Completion of French I
		X	X	Year long	French III	Completion of French II

Spanish I	One Year	Grades: 9 – 12
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Spanish I is an introductory college-prep course designed to help each student attain a general knowledge of the four basic skills of reading, writing, listening, and speaking. An introduction into practical vocabulary will include themes such as classroom, family, food, pastimes, greetings, time, weather, shopping, sports, and numbers. Each student will be encouraged to accept the personal challenge of exploring another language through cultural experiences and conversation.

Spanish II	One Year	Grades: 10 – 12
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Prerequisite: Successful completion of Spanish I

Spanish II continues to develop practical vocabulary such as clothing, body parts, animals, and daily routines. New concepts in grammar include the exploration of the past tense. Students are encouraged to develop their speaking, listening, writing, and reading skills in order to achieve proficiency in the Spanish language and culture.

Spanish III	One Year	Grades: 11 – 12
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Prerequisite: Successful completion of Spanish II

In Spanish III the student can expect to speak Spanish almost exclusively (98%+). Grammatical concepts encompass the exploration of various tenses, including progressive and future tenses to expand the student's conversational abilities. Spanish III will allow the student to bring together and refine skills learned in previous levels. Each student who successfully completes the course may have the opportunity to participate in a foreign field experience.

Spanish IV	One Year	Grade: 12
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Prerequisite: Successful completion of Spanish III

Spanish IV allows the students to refine and perfect all communication skills learned in previous levels through literature. A variety of activities and culture experiences will be included. Spanish will be

spoken exclusively. Each student who successfully completes the course may have the opportunity to participate in a foreign field experience.

Other Course Options

E2020 Course Name	Department	Length
Mathematical Models and Applications	Math	one year
Trigonometry	Math	one semester
Financial Math	Math	one year
Environmental Science	Science	one year
Economics	Social Studies	one semester
Human Geography	Social Studies	one semester
Art History	Elective	one semester
Psychology	Elective	one year
Sociology	Elective	one semester
Strategies for Academic Success	Elective	one semester
Career Planning	Elective	one semester
Foundations of Personal Wellness	Elective	one year
Healthy Living	Elective	one semester
Spanish I	Elective	one year
Spanish II	Elective	one year
Spanish III	Elective	One year
Spanish IV	Elective	One year

Please see the counselor for additional courses not listed.
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Dual Credit College Courses

Students at South Hamilton High School have the opportunity to earn college credit during their high school careers through several options. These options are described below:

Concurrent Enrollment

This option allows students to earn Iowa Central Community College credits through courses taught at South Hamilton High School. This option is also open to all ninth and tenth grade students (identified as TAG students) plus all eleventh and twelfth graders. Some college courses require a mandatory placement score. The following are examples of early bird classes taught at South Hamilton:

<i>ICCC Western Civilization I</i>	<i>One Semester</i>
<i>ICCC Western Civilization II</i>	<i>One Semester</i>
<i>ICCC English 105</i>	<i>One Semester</i>
<i>ICCC English 106</i>	<i>One Semester</i>
<i>ICCC Creative Writing</i>	<i>One Semester</i>
<i>ICCC Dreamweaver</i>	<i>One Semester</i>
<i>ICCC Web Graphics</i>	<i>One Semester</i>
<i>ICCC Intro to Computer Aided Drafting (CAD)</i>	<i>One Semester</i>
<i>ICCC Beginning Welding</i>	<i>One Semester</i>
<i>ICCC Crop Production</i>	<i>One Semester</i>

Post-Secondary Enrollment Option

This option was implemented by the state legislature several years ago. The purpose of this legislative act is to promote rigorous academic or vocational/technical standards by allowing students to enroll part-time in college courses.

This option is open to any eleventh or twelfth grade student, or ninth or tenth grade students identified as talented or gifted. Students cannot enroll in courses that are “comparable” to high school course offerings, are limited to “part-time” enrollment at the post-secondary institution (Iowa Central in Webster City or the DMACC Hunziker Center in Ames). Students adjust their high school schedules to provide time to attend the college courses.

Adding/dropping of a dual credit course require approval of the counselor and/or principal. No credit will be granted for a dropped/failed course.

Students interested in concurrent enrollment need to visit with the counselor to ensure eligibility and fill out necessary paperwork. Taking college level courses is a privilege, therefore we expect students to have excellent time management skills and a high level of independence and responsibility. Additional information about both options is outlined below.

ICCC FlexNet Courses

FlexNet courses are taught via the Internet using iNET (located in TritonPass). You have up to 15 weeks to complete the course from the time of enrollment and payment. FlexNet courses do not have weekly deadlines, but it is highly recommended for students to stay on task.

FlexNet courses allow you the opportunity to participate in a college credit course at a time that is convenient for you. You can work on a FlexNet course at your own pace. However, it is up to you to complete all the requirements of the course, and to be responsible for the accomplishment of course objectives in a **TIMELY** manner. A significant amount of self-discipline is required of FlexNet students.

Iowa Central's FlexNet courses allow you to:

Study at a pace that fits your schedule

§ Accelerate academic progress

§ Meet requirements of certificate or license

§ Complete a degree or transfer to another college or university

Regardless of how many courses students enroll in, ONE study hall period (43 minutes) is assigned each day to work on completing the course.

- Receive quality instruction anytime, anywhere, by enrolling in one of our FlexNet courses

Please visit www.iowacentral.edu/distance_education/flexnet.asp for full course descriptions. See the counselor for registration information.

Iowa Central FlexNet courses

Cultural Anthropology (3)	Art Appreciation (3)	Introductory Biology (3)
Human Anatomy and Physiology I with lab (4)	Human Anatomy and Physiology II with lab (4)	Intro to Business (3)
Business Math (3)	Intro to Entrepreneurship (3)	Business Law I (3)
Business Law II (3)	Intro to Chemistry (3)	Intro to Criminal Justice (3)
Patrol Procedures (3)	Intro to Corrections (3)	Criminal Investigation (3)
Criminology (3)	Juvenile Delinquency (3)	Intro to Computers (3)
Principles of Macroeconomics (3)	Principles of Microeconomics (3)	Intro to Education (3)
World Regional Geography (3)	U.S. History to 1877 (3)	U.S. History Since 1877 (3)
Modern Asian History (3)	Medical Terminology (2)	Intro to Human Disabilities and Services (3)
Ethics for Human Services Professionals (1)	Exploring the Humanities (3)	Intermediate Algebra (4)
Statistics (4)	Principles of Management (3)	Principles of Marketing (3)
Exploring Music (3)	Sports and Society (2)	Techniques and Theory of Coaching (2)
Body Structure and Function (2)	Contemporary Health Issues (3)	Intro to Ethical Conflicts (3)

Intro to Psychology (3)	Psychology of Human Relations (3)	Developmental Psychology (3)
Child Psychology (3)	Adolescent Psychology (3)	Abnormal Psychology (3)
Social Psychology (3)	Intro to Religion (3)	Intro to Sociology (3)
Social Problems (3)	Marriage and Family (3)	Intro to Gerontology (3)
Human Behavior in Social Environment (3)	Intro to Human Services (3)	Public Speaking (3)
Coaching Ethics, Techniques and Theory (1)	Athletic Development and Human Growth (1)	Anatomy for Coaching (1)
Care and Prevention of Athletic Injuries (2)	Elementary Chinese I (4)	Elementary Chinese II (4)
Administrative Management (3)	Nutrition (3)	Business Communication (3)
Understanding Cultures: China (3)	Technology in the Classroom (3)	Intro to Lit (3)
Mass Communications Law (3)	International Relations (3)	

South Hamilton Senior Year Plus Requirements

Students at South Hamilton High School have the opportunity to earn college credit during their high school years through several options. The intent of Iowa’s Senior Year Plus statute is to ensure all students in Iowa have increased access to courses that have the potential to generate college credit while in high school. The statute requires all students enrolling in college credit courses be proficient in reading, math, and science with the exception of those enrolling in career and technical courses. Only the most recent Iowa Assessment score(s) are eligible. With the Iowa Assessments, the minimum National Standard Scores (NSS) are as follows:

Grade	Fall	Midyear	Spring
9	Math - 243 Science - 243 Reading - 243	Math - 249 Science - 250 Reading - 247	Math - 249 Science - 250 Reading - 249
10	Math - 252 Science - 253 Reading - 252	Math - 257 Science - 258 Reading - 257	Math - 257 Science - 258 Reading - 257

- a. Earlybird – may withdraw between midterm of course and one week prior to the end of the course.
- b. PSEO and Internet – may withdraw more than three weeks after student’s start date until one week prior to the end of the course.
- c. In either case a “W” is placed on the student’s transcript
- d. Students may not request to withdraw within one week of the end of the course.

Minimum High School Course Requirements

To be considered for admission, students must successfully complete these minimum high school course requirements. Any college prep courses in English, mathematics, science, social studies, and world language can also be used in calculating your [Regent Admission Index](#) (RAI) score.

Regent Admission Index

Students who wish to enter Iowa State University directly from high school will be admitted based upon the following four factors: ACT composite score, high school grade point average, high school percentile rank, and number of high school courses completed in the core subject areas.

A Regent Admission Index (RAI) score will be calculated for each applicant, based on the following equation:
RAI = (2 x ACT composite score) + (1 x high school rank) + (20 x high school grade point average) + (5 x number of high school courses completed in the core subject areas)

Note: For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents; high school rank is expressed as a percentile with 99% as the top value; high school GPA is expressed on a 4-point scale; and number of high school courses completed in the core subject areas is expressed in terms of years or fractions of years of study.

Applicants who achieve at least a 245 RAI score and who meet the [minimum high school course requirements](#) will automatically be offered admission. Applicants who achieve less than a 245 RAI score and who meet the [minimum high school course requirements](#) may also be offered admission, but their applications will be reviewed on an individual basis.



BUILDING YOUR FUTURE

REGENT ADMISSION INDEX (RAI)

Freshman applicants who wish to enter any of the three Iowa public universities must meet the Regent Admission Index (RAI) requirement. The RAI score is based upon four factors: ACT composite score, high school class rank, cumulative high school grade point average and the number of years of high school courses completed in the core subject areas of English, mathematics, science, social studies and foreign language. To calculate your own expected RAI, go to www.regents.iowa.gov/RAI/index.html

RAI CALCULATION:

$$\begin{aligned}
 & (2 \times \text{ACT composite score}) \\
 + & (1 \times \text{high school percentile rank}) \\
 + & (20 \times \text{high school GPA}) \\
 + & (5 \times \text{total number of years of core courses completed in high school}) \\
 & \text{Your RAI}
 \end{aligned}$$

MINIMUM COURSE REQUIREMENTS FOR ADMISSION				OPTIMUM RECOMMENDATIONS FOR SUCCESS
	IOWA STATE UNIVERSITY	THE UNIVERSITY OF IOWA	UNIVERSITY OF NORTHERN IOWA	
ENGLISH	4 years emphasizing writing, speaking, reading, as well as an understanding and appreciation of literature.	4 years with an emphasis on the analysis and interpretation of literature, composition and speech.	4 years including one year of composition, also may include one year of speech, communication or journalism.	4 years with an emphasis on the communication skills of writing, reading and listening and the analysis and interpretation of literature. In addition, courses in journalism and media literacy will be valuable. Extracurricular activities in debate, speech contest, newspaper and yearbook will further develop essential competencies.
MATH	3 years including one year each of algebra, geometry and advanced algebra.	3 years including two years of algebra and one year of geometry for admission to the College of Liberal Arts and Sciences. 4 years including two years of algebra, one year each of geometry and higher math (trigonometry, analysis, or calculus) for admission to the College of Engineering.	3 years including the equivalent of algebra, geometry and advanced algebra.	4 years , one in each year of high school. While advanced courses like calculus and statistics are good, it's more important that you gain a complete understanding of advanced algebra and trigonometry.
NATURAL SCIENCE	3 years including one year each from any two of the following: biology, chemistry or physics.	3 years including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences. 3 years with at least one year each in chemistry and physics for admission to the College of Engineering. Nursing—3 years, including one year each of biology, chemistry and physics.	3 years including courses in general science, biology, chemistry, earth science, or physics. Laboratory experience is highly recommended.	4 years , one in each year of high school. To be really well prepared, take at least one year each of biology, chemistry, and physics. These can be taken in any order and may be taught productively in either a separate or an integrated fashion, depending on your school's offerings.
SOCIAL STUDIES	2 years for admission to Colleges of Agriculture and Life Science, Business, Design, Engineering and Human Sciences. 3 years for admission to the College of Liberal Arts and Sciences.	3 years with US history and world history recommended for admission to the College of Liberal Arts and Sciences. 2 years with US history and world history recommended for admission to the College of Engineering.	3 years including courses in anthropology, economics, geography, government, history, psychology, or sociology.	3 years is essential, but four is better. Take at least one year each of US and world history. Additional courses in anthropology, economics, political science, psychology and sociology provide an important understanding of our political, social and economic institutions.
FOREIGN LANGUAGE	2 years of a single foreign language for admission to the Colleges of Engineering and Liberal Arts and Sciences.	2 years of a single foreign language are required for admission. For many degrees, the fourth year of proficiency is required for graduation. Nursing—4 years in a single language or two years each in two different languages.	Foreign language courses are not required for admission. However, two years of foreign language in high school with a C- or above in the last course will meet the university graduation requirement.	4 years of a single foreign language. By taking foreign language during all four years of high school, you'll go beyond the basic skills and begin to use the language and reinforce your fluency.
OTHER COURSES	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	2 years of additional courses from the required subject areas, foreign language or the fine arts.	Explore! Courses in the fine arts, performing arts, computers, or technology will help round out your high school experience. Your future field of concentration or career may lie in one of those areas. Follow your interests, talents, and the strengths of your school. Remember to choose courses with high academic standards.

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Office of Admissions
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NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE



Divisions I and II Initial-Eligibility Requirements

Core Courses

- **NCAA Divisions I and II require 16 core courses.** See the charts below.
- **Beginning August 1, 2016, NCAA Division I will require 10 core courses** to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements below). These 10 courses become "locked in" at the start of the seventh semester and cannot be retaken for grade improvement.
 - *Beginning August 1, 2016, it will be possible for a Division I college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete.*

Test Scores

- **Division I** uses a sliding scale to match test scores and core grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.
- **Division II** requires a minimum SAT score of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.
- **When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.**

Grade-Point Average

- **Be sure** to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.
- **Division I** students enrolling full time **before August 1, 2016**, should use Sliding Scale A to determine eligibility to receive athletics aid, practice and competition during the first year.
- **Division I** GPA required to receive **athletics aid and practice on or after August 1, 2016**, is 2.000-2.299 (corresponding test-score requirements are listed on Sliding Scale B on Page No. 2 of this sheet).
- **Division I** GPA required to be eligible for **competition on or after August 1, 2016**, is 2.300 (corresponding test-score requirements are listed on Sliding Scale B on Page No. 2 of this sheet).
- **The Division II** core GPA requirement is a minimum of 2.000.
- Remember, the NCAA GPA is calculated using NCAA core courses only.

DIVISION I 16 Core Courses

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

DIVISION II 16 Core Courses

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).