

SCIENCE (CONT)

Weather, Climate & Space (170122) This one-term course is an investigation of the factors which influence earth's weather and climate, and how we use those factors in weather forecasting. The science involved in space exploration, including the principles of astronomy, is one of the special features of this course.

Meteorology (170121) This one-term course introduces many aspects of meteorology including the mechanics of weather, the chemistry of weather, the impact of weather, and forecasting. It helps students understand the fast-moving world of meteorology and allows them to look far beyond the basic TV news descriptions and to develop the ability to forecast the weather using very simple techniques.

General Chemistry (172111/172112) This two-term course is a laboratory-oriented approach to the entry-level study of chemistry. Basic laws, theories, and relationships of unit analysis; structure of matter and energy; periodic law; chemical nomenclature; chemical reactions; kinetic molecular theory; the mole concept and solutions are topics of study. Completion of this course provides a critical thinking background and a basic understanding of the principles of chemistry. There is an additional fee for materials. Goggles are required for this course. They must meet ANSI Z87.1-1989 standards and are available for purchase in the Activities Office.

Advanced Chemistry (172331) This one-term course is designed to prepare students for the rigor of College Chemistry and/or AP Chemistry. Special emphasis is placed on lab techniques, problem solving skills, and critical analysis of chemistry concepts that are useful in other physical, biological, and applied sciences such as medicine, engineering, agriculture, and consumer sciences. There is an additional fee for materials. Goggles are required for this course. They must meet ANSI Z87.1-1989 standards and are available for purchase in the Activities Office.

AP Chemistry (172511/172512/172513) This three-term course is a rigorous and academically challenging college level course. Topics covered in General Chemistry are expanded upon and, new areas of study such as Equilibrium, Electrochemistry and Nuclear Chemistry are introduced. These concepts are developed into increasingly sophisticated ideas that are useful in other physical, biological, and applied sciences such as medicine, engineering, agriculture, and consumer sciences. The class provides students a wide opportunity to develop and improve their problem solving and investigative skills. Students are strongly encouraged to take the National CEEB Advanced Placement Exam. There is an additional fee for materials. Goggles are required for this course. They must meet ANSI Z87.1-1989 standards and are available for purchase in the Activities Office.

Physical Science (170311/170312) This two-term course is an investigation into physics and finding the simplest and least complicated explanation for things. Through laboratory experiences, students observe how things work and find connections between cause and effect that explains why things work. There is an additional fee for materials.

Physics (173111/173112) This two-term course is an investigation of matter and energy with a laboratory centered emphasis on the basic laws and theories related to mechanics, light, sound, and electricity. There is an additional fee for materials.

INDEPENDENT COURSES

Directed Independent Study in Science (DISS) (179921/179922) This course is designed for the science-able, inventive, interested student who wishes to pursue specialized study and research in science by developing a project of his or her own choosing. A student may enroll in this course for a total of eight terms.

Science Laboratory Assistant (179331/179332) This course emphasizes the technical role of an assistant in the biological/physical sciences with preparation of materials and supplies. It is an independent study experience for those students interested in technological opportunities.

SOCIAL STUDIES

Subject	Course Numbers	Units per course	Grade Level Offered				Prerequisites and Related Information
			9	10	11	12	
American Studies II (2-term course)	272111 /272112	1	X				The 2 nd part of the American History sequence started in Grade 8
GROUP I							
Contemporary American History	272121	0.5		X	X	X	The 3 rd part of the American History sequence started in Grade 8
Historical Viewpoints of Modern America	272131	0.5		X	X	X	The 3 rd part of the American History sequence started in Grade 8
GROUP II							
Early Western Civilization	271311	0.5		X	X	X	
Modern Western Civilization (since 1700)	270711	0.5		X	X	X	None
World Cultures	271411	0.5		X	X	X	None
Geography	270121	0.5		X	X	X	None

SOCIAL STUDIES (CONT)

Subject	Course Numbers	Units per course	Grade Level Offered				Prerequisites and Related Information
			9	10	11	12	
AP United States History	272501 /272502 /272503	1.5			X	X	Successful completion of American Studies II and one the two courses from Group I
U.S. Cultural Tapestry	272711	0.5			X	X	None. This course can be taken only once for Social Studies credit
GROUP III							
Economics	274131	0.5			X	X	None
Applied Economics	274121	0.5			X	X	None
Sociology	277511	0.5			X	X	None
Psychology	277111	0.5			X	X	None
Advanced Psychology	277121	0.5				X	Psychology
GROUP IV							
American Government	273011	0.5			X	X	Completion of a Group I course is strongly recommended
American Politics and Government	273211	0.5			X	X	Completion of a Group I course is strongly recommended
ELECTIVES							
Independent Study in Social Studies	279611	0.5		X	X	X	See course description
Student Senate Student Council	279911 /279912	0.5	X	X	X	X	Elected by student body as student senator or student council officer
Student Page Iowa General Assembly	279921	0.5	X	X	X	X	Elective by application

All students are required to complete six terms of Social Studies during grades 9-12, two terms of which are required in grade 9, and four terms in grades 10-12. Students are free to develop their own individual Social Studies program that best meets their educational goals. All students must select courses from four required groups of Social Studies classes:

- Group I - American History
- Group II - World Areas
- Group III - Behavioral Sciences - (Grades 11-12 only)
- Group IV - American Government - (Grades 11-12 only)

American Studies II is a 2-term course required of all 9th grade students. American Studies II is a continuation of the history sequence American Studies I, started in grade 8. American Studies II covers the time period from 1865 to the end of World War II.

For students electing to take Social Studies classes during their sophomore year, it is recommended they complete the history sequence by choosing either **Contemporary American History** or **Historical Viewpoints of Modern America** (Group I), depending upon their interest and abilities. It is also recommended that sophomores consider taking one or more of the courses in **World Areas** (Group II.)

Students must be in grade 11 or 12 to enroll in Group III and IV classes. If all requirements are met by the end of grade 11, students have the opportunity to elect any Social Studies course not previously taken.

American Studies II (272111/272112) A two term continuation of American history that follows the eighth grade course and includes units on (1) Reconstruction, (2) Socialization and Industrialization, (3) The Progressives and World War I, (4) The Depression and World War II.

GROUP I - AMERICAN HISTORY - (ONE COURSE REQUIRED) - (SELECT ONLY ONE)

Contemporary American History (272121) The study of Contemporary American History includes the social, political, economic, religious, educational, and cultural history of the United States since World War II. Emphasis is placed on the developments in American society and United States foreign policy.

Historical Viewpoints of Modern America (272131) The course is designed for students who desire a more intensive study of American history than the regular Contemporary American History course offers. The course covers the political, social, and economic development of modern America through a selected readings approach. Adequate reading and writing skills are necessary for success in this course.

GROUP II - WORLD AREA - (ONE COURSE REQUIRED)

Early Western Civilization (to 1700) (271311) Includes a study of the main concepts which western culture has inherited from the past. Such concepts as Greek democracy, Judeo-Christian ethical concepts, Roman Law, Medieval social and economic systems, Renaissance and Reformation ideas, English parliamentary system, beginning of Modern science, market economy of the 16th century and the ideas of the Enlightenment will be included.

SOCIAL STUDIES (CONT)

Modern Western Civilization (since 1700) (270711) This course, which can be taken separately, is a world history course which continues the historical sequence of Western Civilization. It is based around the political lives, experiences, innovations, and political behavior of people from the French revolution to the present. It is hoped that by studying the more significant events of this century, based upon their derivations from the nineteenth century, the student will have a better understanding of the world we live in and the reason for why things appear as they are.

World Cultures (271411) This course covers the Middle East, China, India, and Africa allowing students the opportunity to see the many ways people in other cultures solve problems. The course emphasizes cultural characteristics in the areas of geography, economics, religion, government, history, regional significance, the arts, and people of these regions.

Geography (270121) Geography presents a wide view of physical, economic, political, and cultural aspects of the major world regions. It is intended to help students understand location, place, region, movement, and human/environmental interaction.

AP United States History (272501./272502/272503) This class is the equivalent of an introductory college survey course in U.S. history, and its content spans the discovery and settlement of the New World to present. The AP United States History course is designed to teach students to think critically about the issues that have confronted and influenced the United States through a process that integrates the examination of factual knowledge, the development and application of analytic skills, and the assessment of primary and secondary sources.

U.S. Cultural Tapestry (272711) This course weaves together cultures that enrich the United States. The course allows students to earn Language Arts and /or Social Studies credit (depending upon the student's designation at registration). U.S. Cultural Tapestry showcases the historical, literary, musical, artistic, and scientific contributions of various ethnic groups such as African Americans, Asian Americans, Hispanic Americans, and Native Americans.

GROUP III - BEHAVIORAL SCIENCE - (ONE COURSE REQUIRED)

Economics (274131) This course is a study of the basic principles and problems of economics and is centered on how society produces and distributes the goods and services in a market economy.

Applied Economics (274121) This is a Junior Achievement course which emphasizes practical elements of microeconomics and includes a business consultant who brings real life situations to blend with textbook theory.

Sociology (277511) This course concerns the interaction of social groups in our society. It is designed to give students knowledge of the various social relationships, behavioral patterns, social progresses, and social systems that are included in their culture.

Psychology (277111) This is an in-depth exploration of human behavior patterns. The ability to recognize concepts and perform analysis of complex material is recommended for students taking this course. Areas presented include the brain and nervous system, learning and memory, experimentation, maladjusted behaviors and current treatment styles, and personality development.

Advanced Psychology (277121) This exploration of human behavior extends the student investigations of psychological methods and themes introduced in Psychology and introduces new areas of study that include the emotional and motivational theories and the field of social psychology. The ability to recognize concepts and perform analysis of complex material is recommended for students taking this course.

GROUP IV - AMERICAN GOVERNMENT - (ONE COURSE REQUIRED) - (SELECT ONLY ONE)

American Government (273011) This course is a study of the workings and functions of the American political system. Topics include the Constitution, the three branches of government, and the development of democracy in the United States. Additional units are included on Iowa Government - state and local, and juvenile law.

Studies in American Government (273211) This course is designed for students who desire to obtain more in-depth knowledge of the organizations functions and administration of our national political system. The course content includes an analysis of the national government, Iowa government, and political parties, as well as the nomination and election process.

ELECTIVES

The courses listed on the following page are for additional work in the social studies area. Students may also elect subjects in Groups II, III, and IV which have not been taken previously.

Independent Study in Social Studies (279611) This course is designed to allow the student to pursue an area of study not available in our standard offerings. Before registering for the course, the student must secure a faculty advisor who is convinced of the student's ability to carry out independent study and who is willing to supervise the student's program. A proposed plan of study should be submitted to the instructor before registration. That plan should be approved by the instructor, department chairperson, the student's counselor and the principal. Independent study does not meet as a regularly scheduled class. Conferences are arranged between teacher and student as needed.

Student Senate Student Council (279911/279912) Open to duly elected officers and student senate members only. This course is designed to provide the "Student Senate" the opportunity of meeting, learning and conducting "Senate" activities in accordance with the principles of formal and informal parliamentary law on a regularly scheduled basis. (This course will not replace the American Government requirement.)

Student Page Iowa General Assembly (279921) (When the legislature is in session.) Students chosen and employed by the Iowa General Assembly to serve as a Student Page (duties include: assisting State Representatives, State Senators, local patrons; serving as capitol guides, delivering messages, etc.) shall be given elective credit in Social Studies for successful completion of Page duties.