

TABLE OF CONTENTS

Table of Contents	1
Multicultural - Non-Sexist	2
Requirements for Graduation	3
Language Arts	3-5
Math	5-7
Sciences	7-10
Social Studies	10-11
Business Education Program	11-12
Computer/Office Program	12
Foreign Language	12-13
Family and Consumer Sciences	13-14
Industrial Technology	14-16
Vocational Agriculture	16-17
Art Education	17-19
Work Study	19
Health Education	19
Drivers Education	19
Music Education	19-20
Physical Education	20-21
College Credit	21
College Credit ICN	22-23
College Credit ONLINE	23

CENTRAL LYON COMMUNITY SCHOOL DISTRICT

MULTICULTURAL - NON-SEXIST

It is the policy of the Central Lyon Community School District not to discriminate on the basis of race, sex, national origin, creed, age, marital status or physical disability in its educational programs, activities, or employment policies as required by Title VI and VII of the 1964 Civil Rights Act, Title IX of the 1972 Education Amendments, and the Federal Rehabilitation Act of 1973.

It is also the policy of this district that the curriculum content and instructional materials utilized reflect the cultural, racial, and sexual diversity present in the United States and the various careers, roles and life styles open to women as well as men in our society. One of the objectives of the total curriculum and teaching strategies is to reduce stereotyping and to eliminate bias on the basis of sex, race, ethnicity, religion, and physical disability. The curriculum should foster respect and appreciation for the cultural right, duties, and responsibilities of each individual as a member of a multicultural, nonsexist society.

Inquiries regarding compliance with the above policies may be directed to the Director of the Region VII Office of Civil Rights; Department of Health, Education and Welfare; Kansas City, Missouri, or the Compliance Officer of the District as appointed by the Board of Education.

GENERAL INFORMATION **CLASS LOAD**

The minimum class load will be 6 full credit subjects each semester, plus physical education for all students. (Band or chorus may be counted as a subject). Students in both band and chorus must also take 4 academic subjects.

All physically able students shall be required to participate in the PE program for a minimum of one-eighth unit during each semester they are enrolled except as otherwise provided in this paragraph. A twelfth-grade student may be excused from this requirement by the principal of the school in which the student is enrolled under one of the following circumstances:

1. The student is enrolled in a cooperative, work-study, or other educational program authorized by the school which will require the student's absence from the school premises during the school day.
2. The student is enrolled in academic courses not otherwise available. The student's parent or guardian must request the excuse in writing. The principal shall inform the superintendent that the student has been excused.

REQUIREMENTS FOR GRADUATION

Students must have earned at least 48 credits to graduate (this includes May Term).

Also, students must pass:

- 4 years of English (including a semester of Speech)
- 2 years of Math
- 2 years of Science (Physical Science and Biology)
- 3 years of Social Studies (Consumer Affairs, World History/Geography, U.S. History, Government)
- 1/2 year of Computer Applications
- 4 years of Physical Education

* **Beginning with the class of 2011, they will need 3 years of Math and Science.**

LANGUAGE ARTS

ENGLISH I

2 Credits

Full Year Course

Required for all Freshmen

During the first semester, the freshmen will be using *McDougal, Littel Literature*, Orange Level, which includes a variety of fiction and nonfiction, poetry, and drama. They will read the Shakespearean drama *Romeo and Juliet*. The students will read the novel *To Kill A Mockingbird*.

During the study of short stories, students will be introduced to numerous literacy terms, the understanding of which is necessary to adequately discuss the reading selections. The goal for this semester is to have students understand the make-up of a short story or novel, the elements that can be found within the work, and the ideas (themes) that can be extracted through interpretive thinking.

The material read during this quarter exposes the students to various cultures and ethnic groups. They have an opportunity to read about the plights of those people who struggle for recognition or independence. The stories also offer an insight into lifestyles outside the Midwest. Through careful reading the students can not only learn from the reading but also experience lifestyles of people in parts of our country and the world.

During the second semester, Grammar and Composition is required for all Freshmen. In this course the students are given a review of traditional Grammar; including the parts of speech, parts of a sentence, phrases and clauses. The students then move on to word usage and correct use of verbs and pronouns.

ENGLISH II

2 Credits

Full Year Course

Required for all Sophomores

English composition for the first twelve weeks is a continuation of the basic grammar, which is covered, in the second semester of the ninth grade. Emphasis is placed on sentence revision, paragraph development, and composition writing. Mechanics, including punctuation and capitalization, will also be taught/reviewed.

The remainder of the second quarter and the third and fourth quarters will be an in-depth study of various literary genre. Students will add to the literary terms introduced in the freshman year and utilize them in the analysis of the works read. The text book, *McDougal, Littell Literature* contains the majority of the material the students will read. After a unit on the short story, students will read *The Pearl*, *A Raisin in the Sun*, and Shakespeare's *Julius Caesar*.

Novels to be read will be *Lord of the Flies*, a novel examining man's relationship with one another and with society, and *When the Legends Die*, a novel about cultural heritage.

ENGLISH III 1 Credit One Semester Course
Required for all Juniors (1st Semester)

The first quarter of English III deals with American Literature, primarily poetry and short story. The second quarter deals with grammar. During both semesters, students work with vocabulary to improve reading skills and test scores.

BASIC WRITING I 1 Credit One Semester Course
Elective for Grades 11 and 12 (2nd Semester)

Focuses on first-level skills of effective paragraphs. Students will progress to business letters and resumes. By the end of the semester students will compose short essays.

THE NOVEL 1 Credit One Semester Course
Elective for Grades 11 and 12 (2nd Semester)

The goal of the course is to explore classic and contemporary novels dealing with basic human experiences such as maturing, learning self-awareness, developing relationships with others, and examining a person's place in society. Both traditional classics, such as *Great Expectations*, and contemporary classics, such as *Catch 22*, *One Flew Over the Cuckoo's Nest* and *The Great Gatsby*, will be read.

SPEECH 1 Credit One Semester Course
Required in Grade 10, 11, or 12 (1st or 2nd semester)

The purpose of speech is to help students feel more comfortable speaking when in front of an audience by learning how to plan, prepare, and present a variety of speeches. Types of speeches include impromptu, demonstration, informative, and persuasive.

THE NOVEL II 1 Credit One Semester Course
Elective in Grade 12

This one-semester elective course for Seniors will be an independent reading course with grade determined by contract. Students will select works from a pre-determined reading list and after the reading of each novel will demonstrate understanding through written and/or oral reports. Although The Novel is not a prerequisite, students are encouraged to take it prior to enrolling in the Novel II.

READING AMERICAN LITERATURE 1 Credit Half Year Course
Elective in Grades 11 and 12

This course studies American Literature from the 1600s to the present. Building comprehension and vocabulary skills will be emphasized.

GRAMMAR 1 Credit One Semester Course
Elective for Grade 12

The grammar course seeks to help students achieve competence in written and spoken English. Some of the study is a review of skills previously taught but not always learned or retained. Emphasis is placed on vocabulary development and sentence structure.

A partial requirement of the course is a research paper to assist the college-bound senior. The paper centers on gathering information from libraries and creating an objective report of the findings. In addition, a series of compositions will be written.

JOURNALISM

1 or 2 Credits

Full or Half Year Course

Elective in Grades 11 and 12

The purpose of the class is to assist in the preparation of the yearbook and school newspaper. Journalistic skills, such as news writing, editorial writing, editing, and making headlines are taught. Students are required to write news articles and complete yearbook layouts.

To take this class, a student will be required to have a 3.0 GPA or higher in their high school English courses, or submit a news article that could be used for the school newspaper with a positive critique by the English department.

MATHEMATICS

The freshmen class is ability-grouped in their mathematics classes of Algebra I, General Math, or Applied Math I.

GENERAL MATH

2 Credits

Full Year Course

General Math is available to freshmen with below average mathematical skills, through instruction of this course, the student will:

- improve their mathematical skills.
- understand the need of mathematics in the world of work
- obtain a feeling of success in performing mathematics.

Students will be expected to work realistic problems focusing on real application of mathematics.

PRE ALGEBRA

2 Credits

Full Year Course

Pre-requisite: 8th grade math or General Math – Grades 9 and 10

This class is designed for a transition into the Algebra I course. Students must have successfully completed eighth grade math or one year of general math. Students will cover topics such as: algebraic expressions, working with factors, fractions, and exponents, solving equations and inequalities, solving linear functions, finding area and volume, and also working with right triangles.

ALGEBRA I

2 Credits

Full Year Course

This is a course extending basic mathematical concepts to the use of variables. Solving problems with an unknown will also be presented. Students assigned to this class must have a sound math background and will improve their logical thinking. This course provides the fundamentals of a standard algebra course: simplifying variable expressions, solving equations, graphing linear and quadratic equations, and problem solving.

ADVANCED MATHFull Year Course

Pre-requisite: Algebra II – Grade 11 & 12

This class is for students who would like to take a fourth year of math but do not wish to take calculus. The topics in this class will cover pre-calculus topics; ACT prep; history of math; and real world situations. The student will cover topics in Trigonometry, Discrete math, Analytic Geometry, and algebraic functions. The book uses numerous examples, real-world examples, graphs, diagrams and other illustrations that help students visualize concepts.

BASIC GEOMETRY

2 Credits

Full Year Course

Pre-requisite: Pre-Algebra. - Elective in Grades 10, 11, or 12

GEOMETRY

2 Credits

Full Year Course

Pre-requisite: Algebra I - Elective in Grades 10, 11 and 12

In this course, the student will:

- 1) Work with points, lines and planes
- 2) Use reasoning and proof
- 3) Work with parallel and perpendicular lines
- 4) Solve problems with congruent triangles
- 5) Study relationships within triangles
- 6) Solve problems involving quadrilaterals
- 7) Find area, surface area & volume of geometric figures
- 8) Solve problems using trigonometry

You must take Geometry before going on to Algebra II. (new book in 2004-2005).

Math Progressions:

- 1) Gen. Math, Pre-Algebra, Basic Geometry
- 2) Algebra I, Basic Geometry, Geometry, Algebra II
- 3) Algebra I, Geometry, Algebra II, Advanced Math or Calculus

ALGEBRA II

2 Credits

Full Year Course

Pre-requisite: Algebra I and Geometry

Algebra II is the third class in our series. You must take Geometry as a prerequisite to Algebra II. Algebra II will cover the topics:

- 1) Tools of Algebra
- 2) Functions, Equations, & Graphs
- 3) Linear Systems
- 4) Matrices
- 5) Quadratic Equations and Functions
- 6) Polynomials
- 7) Radical Functions
- 8) Exponential and Logarithmic Functions
- 9) Rational Functions
- 10) Quadratic Relations
- 11) Sequences and Series
- 12) Probability and Statistics
- 13) Periodic Functions and Trigonometry
- 14) Trig Identities and Equations

Algebra II is the prerequisite to Calculus. You will need to take this class during May Term if you plan on taking Calculus the following year.

CALCULUS

2 Credits

Full Year Course

Pre-requisite: Algebra I, Geometry, Algebra II - Elective Course

This course covers a wide range of topics that integrates pre-calculus topics with calculus topics. The early part of the book covers the basic concepts of functions and, in particular, algebraic functions. After that, the book covers the core concepts of calculus such as limits, derivatives and integrals. Later in the book, we study exponential, logarithmic and trigonometric functions and how those apply to calculus. This class will cover all topics that are covered in a first semester college calculus class.

AP*CALCULUS (AB)

1 HS Credit/ 3 College Credits Full Year Course

Pre-requisite is Algebra II **and** instructor's approval. **College credits are dependant on receiving a 3 or above on the end of year AP exam.**

This class is a full year course and the content is comparable to a calculus I course at colleges and universities. It is expected that the students that take this course will seek college credit from an institution of higher learning. To get college credit, students will need to take a comprehensive final exam that is administered within the first two weeks of May each year. The result of that test determines if they will receive college credit.

The student will also receive high school credit for taking this class. So, even if they do not do well enough on the test to receive college credit, they will still get their high school credit assuming they have passed the class.

This class will be extremely challenging and have a very demanding work load.

Daily attendance is very important.

SCIENCES

PHYSICAL SCIENCE

2 Credits

Full Year Course

Required for Grade 9

Physical Science is a year long, full credit, required course, available to freshmen with no pre-requisite. Through instructions in this course the student will:

- practice laboratory skills and use safety procedures in the physical science laboratory.
- understand physical laws explaining the relationship between matter and energy.
- illustrate observation and experimentation are the basis of scientific inquiry and experimentation.
- realize many technological developments utilize the properties of light and sound.
- understand the effective use of energy now and in the future is linked directly to scientific knowledge and human resourcefulness.
- examine a variety of physical science careers.

Students will be expected to show a competency in laboratory procedures and safety as well as account for the basic physical science concepts.

APPLIED BIOLOGY

2 Credits

Full Year Course

Required for Grade 10

This biology is for students who wish to learn and understand the basic components of biology. It is not recommended for the college bound student.

Biology is a year long, full credit, required course, available to sophomores with no pre-requisite. Through instruction in this course, the student will:

- use and care for the tools of the biology laboratory, especially the microscope and dissecting tools.
- understand the classification of living organisms into a five kingdom system
- understand basic concepts of the chemistry of life.
- recognize the cell and its function as the basic structure and function of life.
- be able to understand the structure and function of the single celled organisms to the multi-celled organisms.
- examine a variety of life science careers.
- implements applied biology activities.
- understand the various systems of the human body.

Students will be expected to show a competency in laboratory procedures and safety as well as account for the basic biology concepts.

BIOLOGY

2 Credits

Full Year Course

One of two options to fulfill the requirement of sophomore biology.

This course is designed as an inquiry-based curriculum. It not only provides students with an ability to understand fundamental principles, but allows students to apply these principles to their everyday lives. Through instruction in this course, students will:

- learn about the various life processes and how they occur
- distinguish between living and nonliving things
- recognize the cell, its part, and their functions
- debate current issues involving various living things
- study the various pathogens and how they are transmitted
- understand the human immune system and how it works
- examine means for preventing and curing disease
- learn about various diseases and their genetic links
- students will examine the expression and inheritance of traits
- understand modern genetics
- know DNA as the blueprints of life and the changes that occur with it
- perform various dissections
- understand various systems of the human body
- learn the events involved in growth, development, and change
- discover external factors that affect organisms
- understand the life cycle

NATURAL RESOURCES

1 Credit

One Semester Course

Elective in Grades 11 and 12

Natural Resources is a semester long, co-educational course, available to Juniors and Seniors with no pre-requisites.

Through instruction in this course the students will:

- understand how air, water, land, wildlife, and energy management all impact our environment and humankind.
- understand the role of government agencies and private citizens in resource conservation and pollution control.
- understand how to perform soil test, water tests, and air test.
- be able to identify different types of wildlife.
- study and analyze different habitats.
- analyze outdoor recreation facilities.
- participate in the process of making pure maple syrup.
- participate in the process of planting trees.

The students will be exposed to an extensive hands-on experience in many of the above areas utilizing various different local resources.

HORTICULTURE

1 Credit

One Semester Course

Elective in Grades 10, 11, and 12; Limit 15 students

Horticulture is a semester long, co-educational course, available to sophomores, juniors and seniors with no pre-requisites. Through instruction in this course the student will:

- understand how surroundings affect plant growth.
- understand soils, fertilizers, and irrigation.
- understand the reproduction of plants.

- understand such problems as pests and diseases.
- be exposed to such things as Turf Management, Landscape Design, Floriculture, and Tree Production.
- be exposed to available careers in the areas of Horticulture and Floriculture.
- understand production and marketing methods in the above areas.

The students will be exposed to an extensive hands-on experience in many of the above areas utilizing school grounds.

ACTIVE CHEMISTRY

2 Credits

Full Year Course

Elective in Grades 11 and 12

The Active Chemistry approach includes a “Chapter Challenge”. The challenge serves to focus the chemistry content for each activity. For example, the challenge for the first chapter is to create a periodic table game. Chemistry content is introduced on a “need to know” basis to help students accomplish the chapter challenge. Chemistry concepts, such as, elements versus compounds, electron configurations, atomic models, moles and molar mass, chemical formulas and equations, density, hydrocarbons, polymers and more are part of the course. The concepts, however, are presented in a way that is different from a traditional chemistry course.

CHEMISTRY

2 Credits

Full Year Course

Pre-requisite: Algebra I - Elective in Grades 11 and 12

Through instruction in this course, the student will:

- understand the properties of matter.
- develop proportional reasoning skills.
- perform laboratory experiments to reinforce concepts and to understand the importance of uncertainty in scientific work.

Students will be expected to demonstrate their understanding of matter, they will also be expected to do careful laboratory work and write a report on the results.

Topics covered in this one year course include: identifying chemical and physical changes; naming and writing formulas for substances; the mole concept and molar mass; chemical equations and balancing; applying the mole concept to balanced chemical equations; Gases - Boyle’s Law, Charles’ Law Ideal Gas Law; models of the atom; chemical bonding; solutions - molarity.

PHYSICS

2 Credits

Full Year Course

Pre-requisites: Algebra I, Geometry, Algebra II

Elective in Grade 12

Minds On Physics (MOP) is an activity-based, full year course. The activities are designed to help students learn to use physics concepts to analyze and solve problems, and to curb students’ natural tendency to learn by rote and to engage in formula manipulation. Working in groups, students use concepts to analyze problem situations and answer open-ended questions, explore the meaning of concepts through inquiry and hands-on activities, and share personal reflections on prior experiences.

The course covers two full books- the first book covers Motion (velocity, speed, acceleration, position, distance, displacement), and the second book covers Interactions (vectors, forces, Newton’s laws of motion, free-body diagrams). Part of a third book is covered titled Conservation Laws and Concept-Based Problem Solving.

ANATOMY & PHYSIOLOGY

Pre-requisite: 2 semesters of Chemistry (C or above average)

This advanced science course is designed for students to investigate the structure and function of the human body and its components, as well as to realize its amazing design. This course will be a comprehensive and in-depth study of the systems of the body such as the skeletal, muscular, nervous, cardiovascular, endocrine, respiratory, digestive, urinary and

reproductive systems. Anatomy and Physiology is taught as a combination of lecture/discussion with some laboratory work as well. The course is primarily open to seniors and is recommended for those interested in pursuing studies in the nursing, medical and science therapy fields.

SOCIAL STUDIES

U.S. HISTORY

2 Credits

Full Year Course

Required for Grade 11

Students will study U.S. History from reconstruction to the present. Also, students will be expected to gain an understanding of the present day U.S. and the world by studying the social, political, economic, military, and geographic events and trends of the past. U.S. History will be examined through the use of primary and secondary sources, independent research, group work, and formal evaluations.

GOVERNMENT

1 Credit

One Semester Course

Required for Grade 12

You will develop a knowledge and skill base in the science and work of government that can be used by all students. For students who may never take another course in government and those who will be pursuing further studies. It is required by all seniors. The class will be structured around many different objectives ranging from the study of the origin, history, structure, functions, and processes of our American political system. It will identify the relationship between local, state and national levels of government. The class will study how we as citizens involved in political parties and interest groups influence and are influenced by our political system. The class will require the knowledge of the working order of the various branches of the local (city and county), state, and national government.

SOCIAL PSYCHOLOGY

1 Credit

One Semester Course

Elective in Grade 12

Students will examine groups and how they influence our behavior. Also, students will gain a basic understanding of social institutions, socialization, social problems, and social movements by examining primary and secondary sources, independent research, and formal evaluations. This is a college prep class and is recommended for those planning to attend a four year college.

PSYCHOLOGY

1 Credit

One Semester Course

Elective in Grades 11 and 12

Preference is given to 12th graders. Students will examine how individuals act, think, and relate to each other in order to obtain a better understanding of human behavior. A thorough investigation of psychology will be done through primary and secondary sources, independent research, group work, and formal evaluations. This is a college prep course and is highly recommended for those planning to attend a four year college.

WORLD HISTORY/GEOGRAPHY

2 Credits

Full Year Course

Required of all sophomores

This course tells the stories of people, events, and institutions from the earliest civilizations to modern times. As a result it touches upon and includes all of the social disciplines. People's beliefs, the ways they meet their economic needs, the social and political institutions they form, and the culture they transmit from one generation to another are all a part of History.

This course also integrates the teaching of Geography with History. Geography is not taught as a separate subject but is included in every lesson as needed, through maps, diagrams, photographs, and text descriptions.

CONSUMER AFFAIRS

1 Credit

One Semester Course

Required of all Freshmen

Students will be introduced to basic economic principles, types of economic systems, business organization, and other issues that face us in today's global economy. The class also covers consumer rights and responsibilities, starting and maintaining a checking account, and credit.

ADVANCED CONSUMER ECONOMICS

1 Credit

One Semester Course

Pre-requisite: Consumer Affairs - Elective in Grades 10, 11, and 12

A continuation of Consumer Affairs with emphasis on credit, insurance, savings, and personal record keeping. It stays much the same except more in depth into each of the areas listed above.

BUSINESS & COMPUTER/OFFICE EDUCATION PROGRAM

With input from a vocational advisory committee, we offer students a technical education program containing three-sequential units in two areas. In partnership with Northwest Community College of Sheldon, IA, programs of study are offered in the areas of accounting, marketing, and administrative assistant, which can be found at www.centrallyon.org.

BUSINESS EDUCATION PROGRAM**ACCOUNTING**

2 Credits

Full Year Course

Elective for Grades 11 and 12

This course can be articulated statewide to any Iowa community college. Accounting is the language of business that everyone needs to know. This is done by recording, analyzing and summarizing transactions into proper reports, along with development of the double entry accounting theory. In addition to accounting for a business, students also learn about banking, managing a checking account, personal income taxes, and complete a year-end simulation.

BUSINESS MARKETING

1 Credit

One Semester Course

Elective for Grades 10,11 & 12

Business marketing is designed to give an overview of business marketing, including marketing technology, global marketing, ethics, and customer service. This class will involve a lot of discussion and a variety of computer and "hands-on" activities. We will work in conjunction with a local business or organization on a school-to-career marketing project and with the foods class on Snack Shack.

BUSINESS LAW

1 Credit

One Semester Course

Elective for Grades 10,11 & 12

Business Law affects each of us on a daily basis, when buying a car, taking clothes to a dry cleaner, obtaining jobs, renting apartments, or obtaining credit. Contract law, criminal & civil law, personal injury law, and history of law are few of the topics. The class incorporates discussion of current law-related events, attends a sentencing hearing at the federal court house in Sioux Falls, and students write argumentative essays on a law-related subject of their choosing.

ECONOMICS

1 Credit

One Semester Course

Elective in Grade 11 & 12

Economics is a study of scarcity. It deals with the economic choices of what, how and for whom goods will be produced. The various systems of economics are studied and compared. (capitalism, socialism, and communism)

Other topics to be included are the money supply, inflation, unemployment, the farm problem, and the banking system.

COMPUTER/OFFICE PROGRAM

COMPUTER APPLICATIONS

1 Credit

One Semester Course

Required of all Freshmen

Computer Applications is designed to build on technical skills learned in middle school. Students will use advanced features of Microsoft Word and Excel, create a presentation using PhotoStory, and use Adobe Photoshop to enhance digital images. Computer hardware, file management, use of tech equipment, and online databases will also be included.

ADVANCED COMPUTER APPLICATIONS

1 Credit

One Semester Course

Elective for grades 10, 11, and 12

Pre-requisite: Computer Applications

We will begin with basic photo editing and advance to imaging options such as layers, masks, filters, and various color settings using Adobe Photoshop, which has been described as “an industry standard for graphics professionals.” Additional course topics include advanced Microsoft Excel, Power Point, file management, use of tech equipment, and HTML web pages. Topics may vary based on student interest, class size, and available technology. The semester will end with an individual or group technology project that is proposed by the students and approved by the teacher.

OFFICE TECHNOLOGY

2 Credits

Full Year Course

Elective in Grades 11, or 12

Description: This class is designed to be a hands-on, production-type curriculum in which the student develops and applies skills that will be used in an office setting. Skills included are filing, computer applications, (create, access, use and manage information), ten-key, business English, communication skills, and office machines. We also want to familiarize the learner with critical, information-age office terminology and technology.

WEB PAGE

1 Credit

One Semester Course

Elective for grades 10, 11, 12

Students will learn web design techniques, create and enhance digital images, and locate resources on the Internet; then contribute these skills to creating and managing a portion of the Central Lyon web page. Students will also contribute to the podcast KA-POW.

WEBMASTER:

1-2 Credits

One to Two Semester Course

Elective for grades **11, & 12**

Pre-requisites: Web Page Class, May term Audacious Web Tools class, & special permission from instructor.

Students will edit and proofread student-created web articles, in addition to planning and creating KA-POW podcasts and polls for www.centrallyon.org. This position requires attention to detail, a high interest in computers, and the ability to work independently. Limited number accepted for this role.

FOREIGN LANGUAGE

SPANISH I

2 Credits

Full Year Course

Elective in Grades 9-12

Spanish I is an introductory course. The main emphasis is on oral communication but reading and writing activities are incorporated into each unit as well. Each of the 15 units has a basic theme from which the instructional material is

taught. These units consist of vocabulary exercises, grammar concepts, cultural presentations, reading activities and writing activities. In Spanish I they will learn how to use the present, future and past tenses, how to conjugate regular and irregular verbs and how to use adjectives and object pronouns.

One half hour is expected in daily preparation. Grading is based 1/2 on quizzes, written work and unit tests, and 1/2 is based on oral communication and classroom participation.

SPANISH II 2 Credits Full Year Course
Pre-requisite: Spanish I- Elective for Grades 10-12

Although the emphasis is still on oral communication, the students will delve more deeply into the grammar of year one and add the preterit of irregular verbs, the commands, the imperfect and the subjunctive. The students will be expected to write more detailed compositions. Speaking in the target language will also be expected. One half hour of daily preparation is expected. Grading is based 1/2 on oral communication and classroom participation, and 1/2 on written work, tests and quizzes.

SPANISH III 2 Credits Full Year Course
Pre-requisite - Spanish II

We will continue with the same grammar but more extensively. The present perfect, the past perfect, the conditional and the past subjunctive will be introduced. Students will apply their knowledge in compositions and projects, and through testing and speaking proficiencies. With the exception of explaining new grammatical techniques, students will be expected to speak in the target language at all times. Grading is based on 1/2 oral communication and classroom participation and 1/2 written work, tests and quizzes.

SPANISH IV 2 Credits Full Year Course
Pre-requisite: Spanish III

Students will have a general review of all grammar and will learn the finer points of the language. They will be exposed to music, literature and art from various Spanish-speaking countries. Spanish will be spoken at all times. As in previous years grading is based on 1/2 oral communication and classroom participation and 1/2 written work, tests and quizzes.

THE AP SPANISH LANGUAGE COURSE 1 HS Credit/ 3 College Credits Full Year Course
Pre-requisite: will be Spanish III **and** instructor's approval. **College credits are dependant on receiving a 3 or above on the end of year AP exam.**

This course will help to prepare students for the AP Spanish Language Examination. The course will be conducted entirely in Spanish and the students are encouraged to practice the target language. The course will consist of a grammar review and reading and discussing short stories in Spanish. Throughout the year the class will be practicing the skills needed for the exam such as reading, listening, speaking and writing by using authentic materials. In May the students will be expected to take the AP Spanish Language Exam.

FAMILY AND CONSUMER SCIENCES

FAMILY AND CONSUMER SCIENCE I 2 Credits Full Year Course
Elective for Grades 9, 10, 11, and 12

Areas to be covered: (1) consumer economics (2) self-concept and relationships (3) nutrition (4) basic food preparation and terms (5) clothing care (6) textiles and design (7) interior design (8) child care and development

FOODS 1 Credit One Semester Course
Pre-requisite: FACS I
Elective for Grades 10, 11, and 12

Areas to be covered: (1) history of foods (2) nutrition - food analysis (3) dietary planning (4) marketing (5) food preparation (6) operation of school snack shack

TEXTILES 1 Credit One Semester Course
Pre-requisite: FACS I
Elective for Grades 10, 11, and 12

Advanced sewing, projects chosen by students, of various kinds.

HOMES BY DESIGN 1 Credit One Semester Course
Elective for Grades 11 and 12

Areas to be covered: Architectural Home Designs, Understanding Design of Interiors, Furniture Styles, Creating Your Own Dream Home.

TODAY'S FAMILY 1 Credit One Semester Course
Elective for Grades 10, 11, and 12

Areas to be covered: (1) teen-agers today and decision making (2) dating (3) engagement (4) human sexuality (5) marriage (6) parenthood (7) current family issues.

SINGLE SURVIVAL 1 Credit One Semester Course
Elective for Grade 12

Areas to be covered: (1) clothing maintenance and care (2) Laundry and pressing (a) repairing (b) use of machine (3) nutrition (a) familiarizing them with basic cooking utensils and their uses (4) food preparation (a) making wise shopping choices. A course designed for the student who has not had FACS I.

CHILD DEVELOPMENT 1 Credit One Semester Course
Pre-requisite: (starting with the freshmen in the 2004-05 school year): FACS I
Elective for Grades 10, 11, and 12

Areas to be covered: (1) Parenting (2) Pregnancy and Birth (3) The First Year (4) Ages One to Three (5) Ages Four to Six (6) Caring for Children (7) Children of special needs (8) Developmental stages of children.

INDUSTRIAL TECHNOLOGY

*** Cost of Supplies for projects will be at student's own expense.**

***All students will supply their own safety glasses or purchase them from the school.**

***All students will supply their own tape measure.**

*** INTRODUCTION TO INDUSTRIAL TECHNOLOGY** 2 Credits Full Year Course
Elective in Grades 9, 10, 11 and 12th

This is a comprehensive course offered to all students who have had no technology courses. The course will emphasize an introduction to woodworking and hand tool usage, portable power tool usage and stationary power tool usage. It is also an introduction to general shop safety and cleanup, proper tool usage, assembly operations, design consideration, and

ordering specifications. Experiences are provided to aid students in developing competent technical skills in woodworking and related areas. *Features: required projects and elective projects.

*** EXPLORING CONSTRUCTION TECHNOLOGY I** 1 Credit One Semester Course
Pre-requisite: Introduction to Industrial Technology
Elective in Grades 10, 11, and 12

Construction Technology is a semester long, co-educational, elective course, available to sophomores, juniors, and seniors. Through instruction in this course the student will:

- understand all facets of basic carpenter construction.
- understand how to read floor plans and blue prints for building construction.
- understand how to formulate project plans including a bill of materials, and cost estimates.
- understand and practice all facets of wood fasteners (nails, screws, dowels, etc.).
- be exposed to available careers in the field of carpentry.
- practice shop skills (including proper use of tools) and use shop safety at all times.

*Features: scale model garage and plans, small carpentry projects.

*** APPLIED WOOD TECHNOLOGY** 1 Credit One Semester Course
Pre-requisite: Intro to Industrial Technology
Elective in Grades 10, 11, or 12

The course is designed for the student who works to further regard wood applications. Students will develop and research technical skills. Special emphasis will be put on cabinet making and introduction on power tools, special setups, and tool safety. *Features: required door, drawer project, night stand.

*** APPLIED WOOD TECHNOLOGY II** 1 Credit One semester Course
Pre-requisite: Applied Wood Technology – Elective in grades 10, 11, or 12

A continuation of Applied Wood Technology. Will be required projects.

INTRODUCTION TO COMPUTER AIDED DRAFTING (CAD) 1 Credit One Semester Course
Elective in Grades 10, 11, and 12

Introduction to Computer Aided Drafting is a course designed to give students hands on experience with tools and machines of drafting technology. Using traditional and computer drafting equipment the students will learn a written language where ideas are expressed graphically by a combination of views and symbols. *Features: getting started in drafting, both manual and computer use.

ARCHITECTURAL CAD 1 Credit One Semester Course
Pre-requisite: Intro to Computer Aided Drafting - Elective in Grades 10, 11 and 12

Architectural CAD is an advanced course designed for a student who has taken the introduction class. The class studies the design factory that is used to develop a residential structure. The students will design a series of structures that will include symbols and details. *Features: students develop a 1500 square foot home.

MECHANICAL CAD 1 Credit One Semester Course
Pre-requisite: Intro to Computer Aided Drafting - Elective in Grades 10, 11 and 12

Another Drafting Course designed for the students who would like another drawing option. Mechanical CAD will deal with shapes, measurements, figuring angles and scaled drawings. Various kinds of graphic problems with pictorial

designs will be stressed. Drawings associated with mechanical objects, automotive parts and equipment parts will be detailed.

*** METAL FABRICATION**

1 Credit

One Semester Course

Pre-requisite: Introduction to Industrial Technology
Elective in Grades 11 and 12

Metal Fabrication is a semester long, co-educational, elective course, available to juniors and seniors. Through instruction in this course the student will:

- understand the many types and gauges of metal and many of their uses.
- understand the following forms of welding: Arc, Wire Feed, Oxy-Acetylene, Brazing, and other state of the art welding methods.
- understand the different methods of metal bending and cutting including torch cutting and plasma cutting.
- understand and practice proper technique for the above mentioned types of welding.
- be exposed to available careers in the area of metal fabrication.
- understand and practice project planning including: project design and construction, bill of materials, and cost estimate.
- practice shop skills and use safety practices in the area of metal fabrication

*Features: mass production, business like setup of fold-up saw horses. Projects can vary from year to year.

VOCATIONAL AGRICULTURE

VOCATIONAL AGRICULTURE I

2 Credits

Full Year Course

Vocational Agriculture is a year long, co-educational, elective course, available to freshmen with no pre-requisite. Through instruction in this course the student will:

- understand all facts of the Animal Science production industry including beef production, sheep production, swine production.
- understand problem solving methods involved in livestock production.
- understand the importance of meat production to our society.
- be exposed to careers available in the Animal Science industry.
- understand the Future Farmers of American organization.
- realize many technological changes taking place in the Animal Science industry.
- practice shop skills and use safety practices in the area of farm construction: carpentry.

Students will be expected to show a competency in shop skills and safety as well as account for the basic Animal Science and FFA concepts.

VOCATIONAL AGRICULTURE II

2 Credits

Full Year Course

Pre-requisite: Vocational Agriculture I

Vocational Agriculture II is a year long, co-educational, elective course, available to sophomores with Vo.Ag.I as a pre-requisite unless previously arranged). Through instruction in this course the student will:

- understand all facets of the Plant Science Industry including Corn Production, Soybean Production, Oats Production, Weed Science, Alfalfa Production, Crop Rotations, and Diversification.
- understand problem solving methods involved in Plant Science.
- understand the importance of fiber production to our society.
- to be exposed to careers available in the Plant Science industry.

- realize many technical changes taking place in the Plant Science industry
- continue advancing in sales principles.
- practice shop skills and use safety practices in the area of Farm Construction: beginning welding,
- Students will be expected to show a competency in shop skills and safety as well as account for the basic Science Concepts.

VOCATIONAL AGRICULTURE III

2 Credits

Full Year Course

Pre-requisite: Vocational Agriculture I and II

Vocational Agriculture III is a year long, co-educational, elective course, available to Juniors with Vo.Ag. I and Vo.Ag. II as pre-requisites (unless previously arranged). Through instruction in this course the student will:

- understand all facets of Ag. Marketing, Co-ops, Agri-Business, Natural Resources, Land Measurement, Concrete construction, and Advanced Welding.
- understand problem solving methods involved in the previously mentioned areas.
- be exposed to careers available in all of the previously mentioned areas.
- realize the many technical changes taking place in the Agri-Business, Ag. marketing, and Metals and Concrete Construction Industries.
- Continue advancing in all areas of the FFA.
- Practice shop skills and use safety practices in the area of farm construction: concrete construction and advanced welding.

AGRI-BUSINESS

1 Credit

One Semester Course

Elective in Grade 12

Ag. Business is a semester long, co-educational course available to Seniors with no pre-requisites. Through instruction in this course the student will:

- understand the different types of economic systems.
- understand the various different types of business procedures and concepts.
- understand the physical distribution of a product line.
- understand the different sales techniques.
- understand advertising and marketing techniques.
- understand employment information and the importance of human relations.
- understand various bookkeeping methods.
- be exposed to the many career opportunities available in this field.

ART EDUCATION

ART I

1 Credit

One Semester Course

Pre-requisite: None

Introduction to the Fine Arts-drawing, painting, ceramics, and sculpture. The student will become familiar with principles, processes and concepts in the making of works of art, through a variety of materials, tools and procedures. The student will become familiar with art careers, terminology, and art appreciation, past and present.

CERAMIC I

1 Credit

One Semester Course
(2nd semester)

Pre-requisite: Art I

The course will introduce the student to functional clay forms using various construction methods: pinch pots, slab. coil and the potters wheel. The student will be introduced to various techniques and decoration methods, and the student will become aware of ceramic related careers, terminology, and art appreciation.

CERAMIC II 1 Credit One Semester Course
Pre-requisite: Ceramic I (2nd semester)

An in depth course into various sculpture methods, techniques and functional clay form that were introduced in Ceramic I. This course allows more time for the student to pursue ceramic areas of personal interest. The student will continue to be made aware of ceramic related careers, terminology and art appreciation.

SCULPTURE I 1 Credit One Semester Course
Pre-requisite: Art I (2nd semester)

The course will introduce the student to the development of Sculptural Forms using various methods, materials and techniques. A variety of subject matter will be used in the development of the sculpture. The student will become aware of sculptural related careers, terminology and art appreciation.

SCULPTURE II 1 Credit One Semester Course
Pre-requisite: Sculpture I (2nd semester)

An in depth course into various methods techniques, subject matters that were introduced to the student in Sculpture I. This course allows the student more time to pursue sculptural areas of personal interest. The student will continue to be made aware of sculptural related careers, terminology and art appreciation.

PAINTING I 1 Credit One Semester Course
Pre-requisite: Art I (1st semester)

The course will introduce the student to a variety of different painting methods, techniques and materials. The student will be using many different subject matter in the development of his/her paintings, and the student will be made aware of painting related careers, terminology and art appreciation.

PAINTING II 1 Credit One Semester Course
Pre-requisite: Painting I (1st semester)

An in depth course into various painting methods, techniques and materials that was introduced in Painting I. This course does allow more time for the student to pursue personal painting interest. The student will continue to be made aware of painting related careers, terminology and art appreciation.

DRAWING I 1 Credit One Semester Course
Pre-requisite: None (1st semester)

The course will introduce the student to various tools used in drawing as a means of expression. A wide variety of subject matter will be used to explore different techniques used in drawing. The student will become familiar with drawing related careers, drawing terminology and art appreciation. The course allows more time for the student to pursue drawing areas of personal interest.

DRAWING II 1 Credit One Semester Course
Pre-requisite: Drawing I (1st semester)

An in-depth study to methods, techniques, and subject matters that were introduced in Drawing I. A continued awareness of drawing related careers, drawing terminology and art appreciation. The course allows more time for the student to pursue drawing areas of personal interest.

DRAWING III 1 Credit One Semester Course
Pre-requisite: Drawing I and II (1st semester)

This is a continuation of Drawing II.

WORK STUDY

WORK STUDY

1 Credit

One Semester Course

Pre-requisite: May Term's Work Place Readiness - Elective in Grade 12

Work Study allows seniors to work two consecutive periods a day at a work station in the community. This provides an opportunity for students to explore an occupational area they may want to pursue following high school or college graduation. There is no pay for this work experience other than the chance to gain valuable on-the-job training from experts in the field.

Students are also expected to carry their own insurance. See Mrs. Harman for more details.

This course is one of the few in the curriculum that is graded ' Pass/Fail '.

HEALTH EDUCATION

HEALTH I

1 Credit

One Semester Course

Elective: Must have biology as prerequisite, Grades 11 and 12

The following areas will be covered in Health I along with a field trip: Self-Responsibility for Wellness, Understanding the Body, Support and Control Systems, Energy and Transport Systems, Endocrine and Reproductive System, Mental Health, Promoting Mental Health, Mental Disorders, Stress Management, Family and Social Health, Healthful and Responsible Relationships, Adulthood, Marriage and Parenthood, Growth and Development, From Conception to Adulthood, Toward Completion of the Life Cycle, Nutrition, Healthful Eating, and Making Decisions about Food.

HEALTH II

1 Credit

One Semester Course

Pre-requisite: Health I – Elective: Must have biology as prerequisite, Grades 11, and 12

Health II will consist of the following areas: Exercise and Fitness, Benefits of Physical Fitness, Designing your Physical Fitness Plan, Drugs, Lifestyle Free From Drug Misuse and Abuse, Lifestyle Without Alcohol Use, Tobacco Free Lifestyle, Diseases and Disorders, Communicable Diseases, Cardiovascular Health, Planning for Health Care, Safety and First Aid, Personal Safety, Emergency Care, Community and World Health, Environmental Health.

DRIVERS EDUCATION

DRIVERS EDUCATION

No Credit

Taught during summer months

State guidelines are followed which require each student to attend a minimum of 30 hours of classroom study and six hours of behind the wheel instruction. Each student must also have a valid learner's permit. Subjects covered include city driving, freeway driving, and driving under adverse conditions. A student must pass both the classroom and driving portions with a least a C average to get a passing grade.

MUSIC EDUCATION

BAND

1 Credit

Full Year

Band is open to all students who have instrumental music training and is an integral part of life at Central Lyon. It is the largest voluntary student organization and has four objectives:

- Cultural - To continue the development of music appreciation and understanding through the study and performance of the best in music.
- Educational - To develop interested and discriminating listeners and provide a well-rounded musical background.
- Service - To lend color and atmosphere to certain athletic and community affairs, while promoting and enhancing the dignity and reputation of Central Lyon at all concert appearances.
- Recreation - To provide all students with an opportunity for worthy use of leisure time, an emotional outlet and good social experiences.

Each student is given an opportunity to participate in marching Band. In addition, Jazz Band is offered and participation is by audition. Stage Band is offered to all beginning jazz players. Ensemble playing and solo work is available to all that want to participate.

CHORUS

1 Credit

Full Year

Vocal Music at Central Lyon is open to any student who wishes to participate and is willing to accept the responsibility of working in a group. It should be stressed that vocal music is not required and that therefore only students with a sincere desire to sing will be allowed to participate. An attempt is made to hold all rehearsals during the school day, but when necessary (especially with regard to small groups and solos), practice sessions may be required outside the school day.

Weekly voice lessons are required of all choir members in which they will learn about and work on singing technique. These lessons will be scheduled by the instructor.

Concert Choir is a select, balanced group of dedicated singers meeting up to five days a week. Literature is varied from the classics to contemporary selections. Emphasis is on performing a wide variety of music from different styles and cultures, singing with proper technique, and good musicianship.

Jazz Choir is a small auditioned ensemble meeting two times weekly, once before school, and once during the school day. The literature consists of jazz and swing music. Members must belong to the Concert Choir.

Swing Choir is a small auditioned ensemble which rehearses once a week during the school day. The literature consists of contemporary pop and Broadway music which students will dance to. Members must belong to the Concert Choir. Ensembles are various small groups which rehearse at various times throughout the year. All-State, Small Group Contest, and concerts provide outlets for these groups.

PHYSICAL EDUCATION

FRESHMAN REQUIREMENTS

The physical education curriculum for 9th grade students is set up to develop team work and basic understanding any of the works and strategy of different activities and to develop some degree of competence in these areas: speedball, touch football and field hockey. They also participate in golf, frisbee, a physical fitness unit, volleyball, gymnastics, basketball, wrestling (boys), weight training, handball, pickle ball, bowling, softball, racquetball, obstacle course and badminton, and cross country skiing. A physical fitness test is given in the spring. Most units are co-educational. The students also participate in aerobics.

SOPHOMORE REQUIREMENTS

The 10th grade students start off in the fall with team sports such as physical fitness, field hockey, speedball, and football. Throughout the year they will have frisbee, golf, handball, weight program, fitness unit, gymnastics, volleyball,

basketball, wrestling, bowling, racquetball, obstacle course, badminton, pickle ball, softball, rugby, and cross country skiing. A physical fitness test is given in the spring. Most units are co-ed. The students also participate in aerobics.

JUNIOR REQUIREMENTS

The Juniors are exposed to lifetime sports and individual activities which they will be able to use during their lifetime. The students start off with archery in the fall. Throughout the year they participate in badminton, a fitness unit, gymnastics, basketball, volleyball, handball, racquetball, weight-room program, pickle ball, trap shooting, cross country skiing, bowling, obstacle course, and aerobics.

SENIOR REQUIREMENTS

The Seniors are exposed to lifetime sports and individual activities which they will be able to use during their lifetime. The students start off with archery in the fall. Throughout the year they participate in badminton, a fitness unit, gymnastics, basketball, volleyball, handball, racquetball, weight-room program, pickle ball, trap shooting, cross country skiing, bowling, obstacle course, and aerobics.

COLLEGE CREDIT CLASSES-REQUIREMENTS

- Must have a 2.60 GPA
- Must be a Junior or Senior or a Talented and Gifted (TAG) Freshman or Sophomore
- Must have a free period to spend in the library for online classes
- Parents and students must sign a parental waiver
 - Students are required to reimburse the school for any College Credit Classes that they fail or if they drop the course
- Students can take no more than 2 college credit classes a semester
- Students must register for college credit classes by June 1.
- Students who register for a college class after June 1 will be put on a waiting list in case anyone drops.

COLLEGE CREDIT CLASSES-ON CENTRAL LYON'S CAMPUS

**HUMAN RELATIONS FOR
THE CLASSROOM TEACHER**
Elective for Grades 11 and 12

1 credit/3 college credits

One Semester Course

This course is designed to develop an awareness of the responsibility of educators in establishing educational programs that attempt to develop sensitivity to and understanding of the different cultural/ethnic groups found in a pluralistic society. This course will include a history of the discrimination that many minority groups have encountered in North America and possible educational strategies for dealing with the problems minority groups have encountered in the educational process.

FOUNDATIONS OF EDUCATION
Elective for Grades 11 and 12

1 credit/3 college credits

One Semester Course

This course is an examination of teaching as a potential career, discussions of the goals of education, roles of teachers, historical development of education, educational reforms, alternative and current philosophical issues, and human relations aspects of teachings. Successful completion of this course will allow the student to earn dual credit (high school and college). A student must have at least a 2.6 cum. GPA to take this class. The three college credits earned will be through Northwest Iowa Community College in Sheldon.

College Credit Classes through the ICN

College Composition I

1 HS credit/3 college credits

One Semester

Course

Prerequisite: Is only open to seniors and they must be enrolled in Grammar or have taken Grammar at the same time as College Composition I.

You will develop skills in written communication through various experiences including expository, persuasive, and research papers. Instruction will also include basic research and documentation skills.

College Composition II

1 HS credit/3 college credits

One Semester

Course

Prerequisite: Composition I

This course focuses on helping you develop advanced writing skills in order to compose analytical and persuasive essays. You will use advanced research and critical thinking skills to respond to and compose essays based on current issues and enduring questions.

Public Speaking

1 HS credit/3 college credits

One Semester Course

The emphasis in this course is placed on actual speaking experiences. Instruction focuses on the theory of preparation and presentation, application and practice, observation and listening, and on the giving of critical feedback. Types of speeches assigned will include informative, persuasive and special occasion.

Intro to Sociology

1 HS credit/3 college credits

One Semester Course

This course introduces you to the field of sociology which is the study of the relationship between the individual and society. Topics covered include culture, social organization, groups, deviance, race, and ethnicity and methods of affecting social change. Language and methods are discussed

Intro to Psychology

1 HS credit/3 college credits

One Semester Course

This course provides exposure to a variety of topics in exploring and studying the human experience. Coverage includes basic neuroanatomy, perception, memory, personality, emotion, learning, psychological disorders, social diversity, and attention is also given to the language and methods of psychology.

Western Civ- Ancient to Early Modern

1 HS credit/3 college credits

One Semester Course

This course is a survey of the evolution of Western Civilization from prehistory to the emergence of the nation-state. Topics include the birth of the first civilization; Greece and Rome; the rise of Christianity; the disintegration of the Roman Empire; and the Early, High and Late Middle Ages.

Western Civ-Early Modern to Present

1 HS credit/3 college credits

One Semester Course

This course is a survey of the evolution of Western Civilization from the rise of the nation-state to the present. Major topics include the French Revolution and the Age of Napoleon; 19th century developments such as liberalism, the Industrial Revolution, socialism, nationalism, and imperialism; and the great wars and upheavals of the 20th century.

College Algebra

1 HS credit/4 college credits

One Semester Course

Prerequisite: Two years of high school algebra are required.

This course is designed to strengthen and expand the algebra skills required for further mathematical study in trigonometry and calculus. The emphasis is on using the concept of an algebraic function to model real-life situations. Different types of models including linear, polynomial, exponential, and logarithmic models are presented along with the supporting algebraic skills and procedures. You are required to have a graphing calculator for this course.

Developmental Psychology

1 HS credit/3 college credits

One Semester Course

This course provides an overview of human development through the lifespan. Topics covered include prenatal, infant, early childhood, middle childhood, adolescence, and all stages of adulthood. Physical, cognitive, psychological, and social development are considered at each stage in the lifespan in an interactive manner. The language and methods of developmental psychologists are discussed.

Abnormal Psych

1 HS credit/3 college credits

One Semester Course

Prerequisite: Introduction to Psychology

This course introduces the language and treatment methods of abnormal behaviors, those outside of the range of normal human experiences. Topics covered include disorders affecting mood, anxiety, personality, and substance use. Other topics include schizophrenia, mental retardation, autism, and cognitive disorders as well as legal and ethical issues.

College Credit Classes—Online

There are a variety of online classes offered through NCC. If you are interested in an online class, please see Mrs. Harman for further details.