

MILLER CITY – NEW CLEVELAND LOCAL SCHOOLS

Miller City High School

COURSE DESCRIPTION GUIDE

Revised 5/16

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Miller City High School 2016/2017

Dear Students and Parents:

Miller City High School the teaching staff and administration strive to provide a relevant and rigorous curriculum for all of our students. It will lead to productive citizenship in our democratic society. The education gained here will be a gateway to the future. The size of the award depends on your choice of coursework as well as the attention to learning that you place on each educational experience that you encounter in Miller City. Decisions involving high school courses and career choices should be a team decision involving students, parents, counselors and teachers. Please consider your options carefully. You may contact me, the guidance counselor, or any of our teachers if you would like help determining the appropriate course of study.

Sincerely,

Mr. Kerry Johnson

****CURRICULUM STANDARDS**

The basic standards used in this curriculum guide are those established by the Ohio Department of Education in conjunction with the Miller City Local Schools Board of Education.

****GRADUATION REQUIREMENTS**

At least 21 credits are required for graduation from Miller City High School. The minimum requirements include the following:

English 4 units

Health 0.5 unit (Taken in 8th grade)

Physical Education 0.5 unit (taken in 7th and 8th grade)

Mathematics 4 units (Must include 1 unit of Algebra II or its equivalent)

Science 3 units (Must include 1 unit Biological Science, 1 unit Physical Science, 1 unit of Advanced Science – Chemistry, Physics, Anatomy or Environmental Science.

Social Studies 3 units (must include American History and Government)

Fine Arts 1 unit (Includes any of the visual or performing arts courses)

Electives 5 units (Must include one unit from Business/ Technology, Foreign Language, Agricultural Education or one additional credit of math, science or social studies)

TOTAL 21 units

In addition to the above credit requirements, students are also required to pass statewide assessments. The classes of 2016 and 2017 are still required to pass the 5 sections of the Ohio Graduation Tests. Students and the classes of 2018 and 2019 are required to obtain 18 points total or higher on the 7 end of course exams.

****COLLEGE LEVEL COURSES OFFERED AT Miller City High School**

--COLLEGE CREDIT PLUS

There are essentially two options available for college credit plus, The first is taking courses at Miller City High School or taking college credit courses off campus at a respective College/University. Admission policies are not the same for every school, additional information is available from the Guidance Office.

****Currently** The following courses are offered at Miller City High School. Please note the availability of these courses can change from year to year.

Urbana University (10 courses) English III, English IV, Government, Anatomy, Drawing and
-43 sem. hours- Speech, Advanced Math, College Prep Math, Economics,
Psychology, Spanish III

Rhodes State College(4 courses) Digital Electronics, Computer Integrated Mtg. (Engineering)
-21 sem.hours- Medical Interventions, and Biomedical Innovation (Biomedical Science)

COMMON REQUIREMENTS FOR COLLEGE

For students who plan to attend one of Ohio's public or private four-year colleges or universities, the following courses are recommended:

- 4 credits of English with emphasis on composition
- 3 credits of Mathematics (Algebra I, Algebra II, Geometry, Advanced Math, College Prep Math)
- 3 credits of Science (PEC Science, Biology, Chemistry, Physics, Anatomy & Physiology)
- 3 credits of Social Studies
- 2 credits of Foreign Language (3 recommended)
- 1 credit of Art, Band, or Chorus

If the above requirements are not met, students may sometimes be admitted with the condition that they take extra courses at their own expense before they may begin taking regular college classes, such as at a Community College.

Please keep in mind that many colleges also judge applicants on the basis of their grade point average, performance on entrance examinations (ACT or SAT), and the rigor of the curriculum when compared to the class rank. Good schoolwork is the best preparation for the ACT or SAT. Because colleges differ in their requirements, a student should get specific details from the counselor and the college in question.

Career Center Options Millstream Career Center
Two-year vocational courses at Millstream

Millstream Programs:

- [Agriculture Programs](#)
- [Automotive Maintenance](#)
- [Automotive Technology](#)
- [Building & Grounds Maintenance](#)
- [Computer Networking](#)
- [Construction Skills Technology](#)
- [Cosmetology](#)
- [Culinary Arts](#)
- [Early Childhood Education](#)
- [Engineering & CAD Technology](#)
- [Hospitality & Restaurant Services](#)
- [Interactive Multimedia Technology](#)
- [Information Systems Support Technology](#)
- [Marketing](#)
- [Medical Technology](#)
- [Office & Print Technologies](#)
- [Programming Technology](#)
- [Teaching Professions](#)
- [Welding](#)

If a student is deficient in more than two- credits in the core areas listed below, he/she will not be eligible for admission into Millstream. This means that the following credits should be earned before enrolling at Vantage.

English 2 credits Science 2 credits

Health ½ credit *must include a physical science and a biological science*

Math 2 credits Social Studies 2 credits

Students will complete the remainder of the core subject requirements at Miller City and will also participate in labs and other subjects related to their chosen careers.

Classes at Millstream Career Center begin at 7:30 a.m.until 9:54 AM (typically Juniors) and 12:12 PM until 2:30 PM for Seniors. Miller City High School will provide bus transportation to and from Findlay isf the student desires.

For more information about Millstream, please visit their website at www.millstreamcc.org

COURSE SELECTION

Course selection should be reviewed in terms of a student's four-year program rather than in terms of the next school year only. Steps in this process:

1. Read the enclosed information carefully. Give consideration to the course description, prerequisites and credits.
2. Select the courses for the next year. Consider the program with your parents and have the course selection form properly signed before you return it.
3. Each student will have a personal conference to complete the registration process. We welcome the opportunity to discuss registration with students or parents at any time.
4. Be certain of your course selection. In case of failure, students must see the counselor for registration adjustment.
5. Students new to the school district should register before the opening day each school year.
6. The course description is used as a tool, offering lists and brief explanations of all possible course offerings.
7. The Master Schedule will be constructed to allow the least number of conflicts. Under subscribed courses may be deleted while new selections of popular courses may be added.

REGISTRATION POLICIES

1. Each student is required to carry a minimum of six (6) full units of credit and 10 semesters of classes each year.
2. Class standing of students will be based on the following:

Sophomores	(10 th year)	5 ¼ units of credit needed
Juniors	(11 th year)	10 ½ units of credit needed
Seniors	(12 th year)	15 ¾ units of credit needed
3. Students who fail required subjects must repeat these subjects.
4. Summer School courses from accredited schools will be accepted toward graduation requirements upon permission from the counselor or principal. A

DRAWING (004) semester .50 credit Grades 10-12
PRE REQUISITE: Art I Lab Fee

This is a semester course that provides a concentration on drawing in perspective, figure drawing, and portraiture while further developing drawing skills and techniques. In drawing, the student will be exposed to many different types of media, for example pencil, color pencil, chalk and pastels, for creating two-dimensional artworks.

**CCP available through Urbana University

PAINTING (007) semester .50 credit Grades 10-12
PRE REQUISITE: Art I Lab Fee

This is a semester course that provides a study and exploration with many different types of painting media. The students will be exposed to different media including acrylics, watercolor and oil. The students will learn color mixing, composition and painting techniques in the various media.

PHOTOGRAPHY (006) semester .50 credit Grades 10-12
PRE REQUISITE: Art I Lab Fee

This is a semester course where the students involved will have an opportunity to learn to use 35 mm cameras to compose interesting black and white photographs. The student would be involved in the entire process of photography from beginning to end. The students will learn the developing process of the black and white film. The students will then create their own prints from their film in the dark room. The student will be exposed to many different techniques of photography, both inside and outside of the dark room.

ADVANCED ART (002) full year 1.00 credit Grades 11-12
PRE REQUISITE: Art I and at least 2 semester art courses, and the approval of Art teacher.

Lab Fee

This year long course offers to the student the opportunity to work in depth with previously learned media and techniques. In Advanced Art, Juniors and Seniors will explore a variety of media while creating unique artworks. Students will work in depth with the different medias creating their artworks while strengthening their artistic skills.

YEARBOOK (010) full year .50 credit Grade 11-12

In Yearbook production class, students will raise funds through effective advertising and book sales in order to pay for the production of the school yearbook. Students will prepare usable layouts, and also write effective copy to be used with photos and various groups and activities. The students will also be able to identify terms used in yearbook design and layout. Students will be given workbook assignments and be expected to meet deadlines.

SPANISH II (091) full year 1.00 credit Grades 10-12

PRE REQUISITE: successful completion of Spanish I

This course reinforces material presented in Spanish I. More verb conjugations and more complex conversational patterns are introduced. The book iAvancemos! nivel dos is used exclusively. Oral presentations are required, as in Spanish I.

SPANISH III (092) full year 1.00 credit Grades 11-12

PRE REQUISITE: C in Spanish II

This class reinforces material from Spanish I and II. All verb tenses are studied, and much information is relayed in conversational Spanish. iAvancemos! nivel tres is the text. Oral presentations are required.

**CCP credit available through Urbana University

HEALTH & PHYSICAL EDUCATION

HEALTH 9 (041) semester .50 credit Grade 8 (HS credit)

The major topics of discussion in this class will be in-depth study in mental health, anatomy and physiology, communicable diseases including aids and venereal diseases, tobacco, alcohol and drug abuse, safety and first-aid. Classroom discussion, movies, projects, assignments and guest speakers will be used to cover these topics. Students will be expected to prepare daily and be involved in class discussions.

PHYSICAL EDUCATION (044) semester .25 credit Grades 7-8(HS credit)

Students will learn and participate in several team and individual sports. The assumption will be made that skills have been learned in earlier grades, therefore, drilling on fundamentals will not be the emphasis here. In addition to the team sports, students will be introduced to some life-time and leisure time activities. Students will go on some field trips to various facilities for some of these activities. Students are expected to dress properly, attend regularly, and participate daily.

MATHEMATICS

PRE ALGEBRA (050) full year 1.00 credit Grades 9-12

the first course that follows the Competency Based Mathematics Program for Ohio. This integrated course covers all strands with a major emphasis on algebraic concepts. (non college intending)

ALGEBRA I (053) full year 1.00 credit Grades 9-12
Algebra I is an introduction into set theory functions, equalities and inequalities, working with unknown, etc. This involves reasoning and a logical thought process. It is a basic building block for higher mathematics. Students will solve problems with unknowns. It is recommended that a student receive an “A” or “B” before registering for Algebra I. Entry is not limited to those students however.

GEOMETRY (054) full year 1.00 credit Grade 10-12
PRE REQUISITE: Algebra I
The geometry course is a study of parallel lines, circles, polygons, locus, ratios, proportions, measurement of geometric figures, and the theorems using these concepts. This course helps a student develop logical reasoning and an understanding of the nature of mathematical proof. A student will be expected to work problems at the board, take part in class discussions, and provide any math tools, which may be needed. It is suggested that students have achieved at least a “C” average in Algebra I before enrolling in Geometry.

ALGEBRA II (055) full year 1.00 credit Grades 10-12
PRE REQUISITE: Algebra I is a continuation of Algebra I. Students will work with complex numbers, irrational numbers, progressions and binomial expansion. It is needed for work in higher math and should be considered heavily by those considering further education. There will be solving of problems with unknowns. It is recommended that you have a “C” or better average in previous math courses to enroll or permission of the Guidance Counselor or Instructor.

ADVANCED MATHEMATICS (056) full year 1.00 credit Grade 12
PRE REQUISITE: Algebra I, Algebra II (Geometry required)
A working knowledge of elementary and advanced Algebraic functions and plane geometry will be studied. Students considering further education should heavily consider this course. It is recommended that you have a “C” or better in previous math courses to enroll or have the permission of the Guidance Counselor or Instructor.
**CCP available through Urbana University

COLLEGE PREP MATH (057) full year 1.00 credit Grade 12
PRE REQUISITE: Algebra I, Algebra II, Geometry
(and enrolled in Advanced Math)
Areas covered are Trigonometry, introduction to Calculus, and some probability. Students who need a strong background in math or logical sequencing of events should enroll. It is recommended that the student have a “C” or better to enroll or have the permission of the Guidance Counselor or Instructor.
**CCP available through Urbana University

ENGINEERING

INTRODUCTION TO ENGINEERING DESIGN (160) full year 1.00 credit Gr.9-12

This Course emphasizes the development of a design. Students use computer software to produce, analyze and evaluate models of projects solutions. They study the design concepts of form and function, then use state-of-the-art technology to translate conceptual design into reproducible products. This course teaches students to:

- *Understand and apply the design process to solve various problems in a team setting;
- *Apply adaptive design concepts in developing sketches, features, parts, and assemblies;
- *Interpret their own sketches in using computer software to design models;
- *Understand mass property calculations – such as volume, density, mass, surface area, moment of inertia, product of inertia, radii of gyration, principal axes and principal moments – and how they are used to evaluate a parametric model;
- *Understand cost analysis, quality control, staffing needs, packing and product marketing;
- *Explore career opportunities in design engineering and understand what skills and education these jobs require; and
- *Develop portfolios to display their designs and present them properly to peers, instructors and professionals.

PRINCIPLES OF ENGINEERING (162) full year 1.00 credit Grades 9-12

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. The course of study includes:

Overview and Perspective of Engineering. Students learn about the types of engineers and their contributions to society.

Design Process. Students learn about problem solving and how products are developed to include how engineers work in teams.

Communication and Documentation. Students collect and categorize data, produce graphic representations, keep an engineer's notebook and make written and oral presentations.

Engineering Systems. Students learn about mechanical, electrical, fluid, pneumatic and control systems.

Statics. Students learn about measurement, scalars and vectors, equilibrium, structural analysis, and strength of materials.

Materials and Materials Testing. Students learn the categories and properties of materials, how materials are shaped and joined, and material testing.

Thermodynamics. Students will learn about units and forms of energy, energy conversion, cycles, efficiency and energy loss, and conservation techniques.

Engineering for Quality and Reliability. Students will use precision measurement tools to gather and apply statistics for quality and process control. Students will also learn about reliability, redundancy, risk analysis, factors of safety, and liability and ethics.

Dynamics. Students will be introduced to linear and trajectory motion

DIGITAL ELECTRONICS (164) full year 1.00 credit Grades 9-12

PRE REQUISITE: Algebra I

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. **College credit available through Rhodes State College. Student must have completed Algebra I.

**CCP Credit available through Rhodes State College

COMPUTER INTEGRATED MANUFACTURING (166)full year1.00credit Gr. 11-12

This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design, and Design and Drawing for Production. Students use CNC equipment to produce actual models of their-three dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included. College Credit available through Rhodes State College.

**CCP credit available through Rhodes State College

MUSIC

HIGH SCHOOL BAND (144) full year 1.00 credit Grades 9-12

PRE REQUISITE: Participation in Junior High instrumental music or achieving a moderate degree of facility on a band instrument.

The band will rehearse and present band literature at public concerts. Students will be expected to improve in tone quality and sight-reading. The course gives the students an opportunity to develop any musical talent he/she may possess. It gives students an opportunity to work towards a common group goal. It gives students an opportunity to develop self-confidence and self-discipline. Students will be expected to attend all rehearsals and concerts. Students will also be required to participate in summer marching band when applicable.

HIGH SCHOOL CHOIR (143) full year .50 credit Grade 9-12
The High School Choir is for the student who is self-motivated and loves to perform. We will focus on improving vocal tone and confidence as we sing in 2-3 concerts (over the course of the year) and take part in District III Contests (either solo & ensemble or large group). Also, this can serve as a learning base for outside opportunities such as musicians, honors groups, or individual lessons.

MUSIC THEORY & MUSIC APPRECIATION (146) full year 1.00 credit Gr. 9-12
Students are instructed in the basic elements of music. Techniques of arranging and orchestration, along with original compositions, are stressed. This class will utilize technology to meet its goals. Students should have a basic understanding of music fundamentals before enrolling in this class.
Students are instructed on the various periods of music. Contemporary, classical, and jazz will require listening sessions, along with oral and written reports.

SCIENCE

PHYSICAL SCIENCE 9 (062) full year 1.00 credit Grade 9
This course is a summary of physics and physical principles applied to everyday living. Topics such as energy, light, mechanics, sound, properties of matter, chemical reactions, etc., will be discussed. Students will be expected to participate in class discussions and complete a Science Fair Project.

BIOLOGY (063) full year 1.00 credit Grade 10
Biology is a general survey of the basic structures and processes underlying all living organisms. Special emphasis will be placed on the integration of cellular and chical concepts among all organisms as well as their increased complexity. It is followed by a survey of all the major plant and animal groups. Students will be expected to participate in classroom discussions, lab experiments, and carry out all assigned work. A lab fee is also required.

CHEMISTRY I (064) full year 1.00 credit Grade 11
PRE REQUISITE: Algebra I
Chemistry is the study of nature of substances and the reactions, which occur among them. Chemistry included the study of the atomic structure of matter, chemical reactions, gases, solutions, and brief introduction to organic chemistry. Students will be expected to participated in classroom discussion, perform lab experiments, and carry out all assigned work. A lab fee is required.

ANATOMY & PHYSIOLOGY (065) full year 1.00 credit Grade 12

Anatomy and Physiology is the study of the structure of the human body and the physiological functioning of the body as it relates to its structure. The course will begin at the cellular level and continue up to the entire organism. While studying the biochemistry of how the human/mammalian body works students will learn about the integumentary, skeletal, muscular, cardiovascular, respiratory, urinary, endocrine, reproductive and nervous systems. Students will develop a variety of lab skills including extensive lab dissection of preserved cats. This course will provide the background for students preparing for careers in nutrition, pharmacology, veterinary medicine, physical therapy, nursing or any other medical related field. A lab fee is required.

PHYSICS (066) full year 1.00 credit Grade 12

PRE REQUISITE: Algebra I

Physics involves the study of a wide range of mechanical and theoretical topics, from the nature of forces and motion through theories of sound, light and electricity to the practical situations dealing with these principles. Students will be expected to maintain a high level of classroom preparation, participate in discussions and lab experiments. Students are required to attain a “C” in Algebra I or have permission from instructor.

BIOMEDICAL SCIENCE

PRINCIPLES OF BIOMEDICAL SCIENCES (060) full year 1.00 credit Gr9-12

This course provides an introduction to the biomedical sciences through projects and problems. Student work involves the study of human medicine, research processes and an introduction to bio-formatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person’s life. Key biological concepts including: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including: the design process, feedback loops, fluid dynamics, and the relationship of structure to function are incorporated in the curriculum where appropriate. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

HUMAN BODY SYSTEMS

The human body is a complex system requiring care and maintenance. This course will engage students in the study of basic human physiology, especially in relationships to human health. Students will use a variety of monitors to examine body systems (respiratory, circulatory, and nervous) at rest and under stress, and observe the interactions between the various body systems. Students will use Labview software to design and build systems to monitor body functions.

MEDICAL INTERVENTION (Rhodes State College)

Medical practice includes interventions to support humans in treating disease and maintaining health. Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments. Using 3-D imaging software and current scientific research students will design and build a model of therapeutic protein.

BIOMEDICAL INNOVATIONS (Rhodes State College)

In this capstone course students apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. Students will design innovative solutions for the health challenges of the 21st century.

SOCIAL STUDIES

WORLD HISTORY (072) full year 1.00 credit Grades 9-10

This course presents an overview of man's social, economics, cultural, social, and scientific movements for America from its European settlements to the current time. It is designed to promote the student's understanding and appreciation of the forces in America's past, which produced the society in which he/she lives. Each student is expected to study the basic text material outside of the classroom in preparation for classroom discussions and analysis. Each will also participate in oral current events reporting.

AMERICAN HISTORY (073) full year 1.00 credit Grade 11

This course is a study of the political eras and the major cultural, social, and scientific movements for America from its European settlements to the current time. It is designed to promote the student's understanding and appreciation of the forces in America's past, which produced the society in which he/she lives. Each student is expected to study the basic text material outside of the classroom in preparation for classroom discussions and analysis. Each will participate in oral current events reporting.

AMERICAN GOVERNMENT (074) full year 1.00 credit Grade 12

This course is the study of the three branches of nation and state governments, local government structure, political parties, foreign policy, civil rights, pressure groups, and propaganda techniques. It is an aid in preparing the student for his/her role as a participating citizen of the political community. Each student is expected to study the basic text, do library research, and report current events. A fee to be determined for a current periodical will be necessary.

Beginning with the 2011-1012 school year, only seniors will be permitted to take Government. An exception to this rule would be a junior who has a 3.0 GPA after 6 semesters. Any other exceptions would be with the approval of the High School Principal.

ECONOMICS/Current Issues (076) semester 1.00 credit
Grades 11-12

This course is the study of the market economy, how the American economic system works and how dependent we are upon business to satisfy our economic wants and needs. The student will learn the economic principles that are essential as a citizen and vote in resolving economic issue of local, state, and national importance; for wise management of one's economic affairs; learn to be an educated consumer. The course consists of class discussions, tests, and library reports on current economic reports.

AGRICULTURAL SCIENCES

AG SCIENCE I (135) full year 1.25 credit Grade 9

The Ag Science I class will be introduced to the mechanics of the F.F.A. organization. Introduction of basic woodworking and tool identification will be presented. The second half of the year is spent identifying and caring for livestock. Our area is a leading county in the production of meat products in Ohio. The study of animal husbandry is needed in order to meet these needs. Our young agriculturalists need the skills of leadership brought to them through the F.F.A. The Ag Science I students will demonstrate the abilities in F.F.A. both in class as well as in various contests through the year. They will also demonstrate their ability to create mandatory and individual wood working projects. Through discussion, problem solving, and field trips the class will be able to identify various livestock. In addition to this the care of livestock and wildlife will be thoroughly discussed and examined.

AG SCIENCE II (136) full year 1.25 credit Grade 10

In the Ag Science II class, use of various welders, electric arc, wire welder (mig weld), and spot welder and oxyacetylene torch will be taught. Individual shop projects, use of an agronomy guide, and plant identification will be presented. The fabricating of cold and hot metals as well as identification of metals are covered. The Sophomore Ag Science class answers the need to the agricultural community in Agronomy. The metal work in lab fits in well with our labor needs industries. This constitutes excellent job prospects. The students in Vo Ag II are expected to produce specific lab projects as part of the welding course. Individual projects will be the remainder of their lab time. In agronomy class the students will participate in discussion, problem solving, and question and answer sessions. Students will be tested in both class and lab work by lab practical or written test.

AG TECH PREP I (137) full year 1.25 credit Grade 11

The third year in Ag Science will include harvesting and storing and marketing of crops. The operation and maintenance of machinery, as well as electricity and small engines will be covered. In addition, Parliamentary Procedure and individual shop projects will also be covered. The Ag Science III class will learn maintenance procedures of various agricultural tools and machines. These procedures not only will help in everyday life of agriculture, but will also help to apply the many problem-solving opportunities of every day life. The Junior Ag Science class is encouraged to participate in class discussions and problem solving projects. They are expected to be able to understand and perform proper maintenance procedures. The students will be tested on their maintenance procedures by either written or lab practical exams.

AG TECH PREP II (138) full year 1.25 credit Grade 12

In the farm management course, students will be presenting planning goals, government programs, farm taxes, calculating interest on loans, farm law, record systems, marketing and insurance plus many others. The student will attend ½ of the year in shop working on individual projects. The Ag Farm Management class will be expected to have a commanding source of knowledge of farm management. They will achieve this through discussion, films, interviews, and guest speakers. The students will be tested over their farm management by written or practical exams.