

TRINITY INTERNATIONAL UNIVERSITY

presents the

GENERAL AND AVAILABLE DEGREE PROSPECTUS

for the

B Sc (Hons) in Agricultural Science

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1. GENERAL INFORMATION

ABOUT THE DEGREE PROGRAMS

Specially prepared by

**Professor Dr J Potgieter
Course Director
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These undergraduate and postgraduate degree courses have been specially prepared for distance learning purposes and are intended to fill the special needs for the university. Students will be entitled to receive credit for life-work experience based on the norms and standards set by CAEL and previously completed studies at recognized academic institutions under the University's accreditation for prior learning program.

Undergraduate degree programs are designed for students who wish to pursue a scientific related program in either the scientific or managerial science fields of endeavor.

These programs are designed and have been compiled from sources and materials NOT RELATED to any existing degree programs offered anywhere. The textbooks selected and syllabuses are based according to the latest materials, developments, technologies and systems applicable in the field of endeavor.

All courses are textbook related and suitable assignments and examinations are set for each course to be completed by students. Where applicable, fieldwork and practical work will be prescribed. Theses and assignments must follow the usual format and structure requirements set by each faculty.

2. DEGREE SUPERVISORS

Under the guidance of Prof Dr J Potgieter PhD (Eng), PhD (Aviation Science), D Lit, D Sc (hc), PhD (Bus Admin), D Eng (Industrial Eng) the following programs are supervised:

B Sc (Hons) Industrial Engineering (Electrical and Mechanical Majors)
 B Sc (Hons) Agricultural Science
 B Sc (Hons) Agricultural Engineering
 B Sc (Hons) Agricultural Management
 B Sc (Hons) Hydrological Science
 B Sc (Hons) Mechatronics Engineering
 B Sc Forensic Science
 M Sc Forensic Science

Under the guidance of Prof S M Keong PhD(Eng), PhD (Eng Mgt), D Sc (Concrete), M Sc (Civil Eng), M Sc (Geot Eng), C Eng, MICE, MIEE, MCIOB, FBEng, FSE, C Math the following programs are supervised:

B Sc (Hons) Structural Engineering
 B Sc (Hons) Concrete Technology
 B Sc (Hons) Soil Science Technology

Under the guidance of Professor Dr S Grima B Com, B Com (Hons), M Sc (Fin Man), M Sc (Accountancy), PhD (Finance), FIPFM, FDTMS, FIAB, AFA the following program is supervised:

M Sc Financial Management

3. ENROLLMENT INFORMATION AND COURSE FEES

Here are the fees for the available degrees:

| Degree | Cost |
|--|---------------|
| Associate Degree (as separate degree or part of Bachelors Degree): | \$1800-00 USD |
| Bachelors Degree (excluding associate degree) | \$1800-00 USD |
| Bachelors Degree (including Associate Degree) | \$3600-00 USD |
| Masters Degree | \$2600-00 USD |
| PhD (in any approved field of research) | \$3600-00 USD |

Textbooks are NOT included and are separately quoted. Costs depend on the nature of the program, exemption granted as well as courier/transportation and importation/tax fees applicable to the student's country of residence.

PAYMENT METHODS

We accept: Personal checks, bank drafts, electronic transfer and credit card payments. Payment by means of installments must be arranged.

ENROLLMENT DETAILS AND ADDRESS

Internet enrollments are possible on our website at: www.trinityinternationalcu.com by following the instructions. Applicable fees are payable by means of a personal check, draft, direct transfer or credit card payments. We accept installments and any approved arrangements for payment of fees.

5. COURSE STRUCTURE

The programs have been structured to ensure they are suitable to any organization or person anywhere in the world. Students will be able to commence with their studies any time of the year. The programs are structured to allow a) students without a high school diploma or b) mature students to study up to the highest degree level. Students without the usual entrance level qualification, but with acceptable basic knowledge are welcome to apply and will be able to study their intended program from first principles. Bridging courses will be prescribed to ensure that the student has the required level of knowledge. Many introductory courses have enough scope and are of such nature, which allows students to advance up to degree level and prepare students for more advanced level work.

OVERVIEW

Objective

The programs are designed for students who wish to study their field of interest most suitable to them. The course programs are suitable for students anywhere in the world and will be complimented with fieldwork, practical requirements and coursework as well as assignments most suitable to the needs of each student. Where applicable, courses will be adapted for special needs on topics, study areas and research areas not included as listed in the various programs. These programs are suitable for distance education or campus learning centers approved by the Course Director. The purpose is also to enable students to acquire the knowledge and theoretical understanding with skills to equip them to advance from basic principles to the higher level in their fields of study. We further strive to provide the mature candidate whom has gained acceptable training, education and experience, an acceptable method to advance to the higher degree levels in his/her career. Our third aim is to ensure that candidates develop their professional careers and gain acceptance through membership or certification or by joining international or local professional institutions.

ENTRY METHOD (as indicated on the [Admissions Page](#))

- A suitable school level certificate (to advance through studies to senior school certificate level), or
- A senior school leaving certificate/diploma for degree candidates
- Mature students with suitable training and experience

EXEMPTIONS (as indicated on the [Admissions Page](#))

Students with completed courses, certificates, diplomas or degrees will be considered for exemption. Partial exemption may be granted where applicable. Additional coursework will be prescribed, to complete the outstanding coursework in question in order to gain full credit for each course where applicable.

DURATION

No time limit is set but as a guide the usual durations are:

Associate degrees - from one to two years

Bachelor's degree programs - from two to four years

Master's degree programs - from one to two years

Doctorates - from two to three years, depending on the amount of work involved.

LEARNING METHODS

- Coursework requirements assignments
- Textbook related studies, notes and articles,
- Fieldwork, research, practical work assignments
- Learning sources such as libraries, Internet and dedicated learning sources

METHOD OF ASSESSMENT

Assignments, projects, independent projects, examinations and independent theses or projects and dissertations as applicable to assess student professionalism.

TEXTBOOKS

Textbooks are prescribed for each course. Where applicable additional learning sources available on the Internet will be utilized. The Course Director will assist students with the arrangement and ordering of textbooks. An estimate will be given to students giving the cost for the textbooks related to his/her studies. Students are responsible for additional study aids, notepads and any other equipment required to study efficiently. A complete reading list will be given for each degree programs upon successful admission to your program of choice.

6. STUDENT DOCUMENTATION

All students at all degree levels will receive the following:

- Information about the required textbooks.
 - Study instructions and assignments.
 - Coursework and fieldwork as required.
 - Syllabus details for each course.
 - Student handbook – basic study requirements and information
 - Student guidelines on how to prepare assignments, theses, proposals and dissertations.
-

8. DEGREE COURSES

B Sc (Hons) IN AGRICULTURAL SCIENCE

Compulsory Courses

| | |
|----------|--|
| FM/CBR1 | Mathematics (i) College Algebra (ii) Calculus I (iii) Calculus II |
| FS/CBR2 | Applied Science (i) Physics I (ii) Physics II |
| BUS/COM1 | Business Communication |
| AGR001 | Mathematical Statistics |
| AGR002 | Environmental Science |
| AGR003 | Soil Science |
| AGR005 | Farm Management |
| AGR006 | Animal Science |
| AGR007 | General Crop Science |
| ARG026 | Agricultural Business Management |

Electives Part 1: Select one course from –

| | |
|--------|------------------------|
| AGR008 | Vegetable Crop Science |
| AGR009 | Fruit Tree Science |
| AGR010 | Soil Nutrient Science |

Electives Part 2: Select one course from -

| | |
|--------|--------------------------------|
| AGR011 | Cultivated Plant Science |
| AGR012 | Weed Science |
| AGR013 | Entomology and Pest Management |

Electives Part 3: Select seven courses from –

| | |
|--------|---------------------------|
| AGR014 | Artificial Insemination |
| AGR015 | Animal Husbandry |
| AGR016 | Animal Nutrition |
| AGR017 | Animal Behavior |
| AGR018 | Animal Production Science |
| AGR019 | Beef Cattle Science |
| AGR020 | Poultry Science |
| AGR021 | Horse Breeding Science |
| AGR022 | Dairy Science |

Electives Part 4: Select one course from –

| | |
|--------|-------------------------|
| AGR023 | Cotton Crop Production |
| AGR024 | General Crop Production |
| AGR025 | Pasture Production |

9. DEGREE SYLLABUS

9.1 GENERAL INFORMATION

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GENERAL NOTES AND INFORMATION APPLICABLE TO EACH COURSE

Pre-requisites

Will be stated if required, but as a guide the structure of the courses and the sequence determine the basic requirements in each case. Usually, mathematics, physics and chemistry are the major tools and form the basic in each case for each program. This is followed by courses required in each case to fulfil the needs for successful completion during the entire study process.

Number of Credits: 3

Hours Assigned:

2 hours/week x 14 weeks or the equivalent via distance learning = 28 hours

Laboratory/practical:

2 hours/week x 7 weeks or its equivalent via distance learning = 14 hours

Total = 42 hours

Contents:

Each course contents are listed below and the general notes and information is applicable to each program.

Objectives A: The subject syllabus provide students with -

- 1 The basic skills for analyzing and improving working methods, procedures and systems in the context of the workstation and a department taking into account ergonomic considerations so that they are able to carry out a production management project in a company for the purpose of management and productivity improvement.
- 2 Skills in the use of compilation of work measurement data and to have a basic understanding of the techniques and importance of qualifying work in manufacturing and service industries hence to be able to measure the work content
- 3 A working knowledge of the techniques of facilities layout and their interaction with the material handling system (where relevant), to enable them to evaluate an existing production system and recommend improvements and/or to plan a new system.

Objectives B: The subject aims to -

- 1 Provide students with an understanding of the basic principles and techniques involved in management of people and engineering in the production of goods and services.
- 2 Enable students to appreciate the importance of quality management.
- 3 Ensure students are aware of the effects on engineering organizations of the factors in the environment within which they operate.

Objectives C: Provide students with -

- 1 The ability to perform research, use the knowledge obtained from each course of the program and to compile and sort the information obtained.
- 2 To be able to use the knowledge obtained to write the research project and to use proper methods, language and techniques to complete the task. Be able to use computer packages and software for the preparation of research projects and reports.

Teaching and Learning Approach:

A mixture of lectures, tutorial exercises and case studies will be used to deliver the various topics in the subject. Some will be covered in a problem-based format where this enhances the learning objectives. Others will be covered through directed study in order to enhance the student's ability of what to learn. Some case studies, largely based on consultancy experience, will be used to integrate these topics and thus demonstrate to students how the various techniques are inter-related and how they apply in real situations.

Assessment:

Coursework - 40%
Examination - 60%

Textbooks and References:

Listed separately for convenience and reference.

9.2 SPECIFIC DEGREE SYLLABUS

B Sc (Hons) IN AGRICULTURAL SCIENCE

Compulsory Courses

FM/CBR1 - Mathematics

Part I – College Algebra

Part II – Differential Calculus

Part III – Integral Calculus

Part I: Basic algebraic functions, Geometry, Functions and graphs, The trigonometric functions, Systems of linear equations: Determinants, Factoring and fractions, Quadratic equations, Trigonometric functions of any angle, Vectors and oblique triangles, Graphs of the trigonometric functions, Exponents and radicals, Complex numbers, Exponential and logarithmic functions, Additional types of equations and systems of equations, Equations of higher degree, Determinants and matrices, Inequalities, Variation, Sequences and the binomial theorem, Additional topics in trigonometry, Plane analytic geometry, Introduction to statistics

Part II: The derivative, Applications of the derivatives, Differentiation of transcendental functions, Differential equations.

Part III: Integration, Applications of integration, Methods of integration, Expansion of functions and series, Supplementary topics.

FS/CRB2 - Applied Science

Part I - Physics I

Part II - Physics II

Part I: Introduction and mathematical concepts, Kinetics in one dimension, Kinetics in two dimensions, Forces and Newton's laws of motion, Work and energy, Impulse and momentum, Rotational dynamics, Rotational kinetics, Simple and harmonic motion and elasticity, Fluids, Temperature and heat, The transfer of heat, The ideal gas law and kinetic theory, Thermodynamics, Waves and sound, the principle of linear superposition and interference phenomena

Part II: Electric force and electric fields, Electric potential energy, Electric circuits, Magnetic forces and magnetic fields, Electromagnetic induction, Alternating current circuits, Electromagnetic waves, The reflection of light, Mirrors, The refraction of light, Lenses and optical instruments, Interference and the wave nature of light, Special relativity, Particles and waves, The nature of the atom, Nuclear physics and radioactivity, Ionizing radiation, Nuclear energy and elementary principles.

BUS/COM1 - Business Communication

Research methods, Libraries and Internet, Referencing, Criteria and plagiarism, Essays and articles, Letters at work, Business proposals and business plans, Reports, Academic proposals and theses, Presentation skills for individuals and groups, Illustrations – graphics and power point.

AGR001 – Mathematical Statistics

Introduction to business statistics, Graphical representation of statistical results, Measures of central location, Measures of dispersion, Basic probability concepts, Probability distributions, Sampling and sampling distributions, Confidence intervals, Hypothesis testing – means and proportions, Hypothesis testing – the Chi-square static, Index numbers, Simple linear

regression and correlation, Interest and annuities, References.

AGR002 - Environmental Science

Environmental sciences and sustainable development, The global environmental debate, Environmental policies and policy processes, Environmental economics in environmental management, Population, vulnerability and criticality, The global warming debate, Coastal management, River processes and management, GIS in environmental science, Soil in environmental science, Groundwater pollution and protection, Marine and estuarine pollution, Urban air pollution and health, Environmental risk management, Energy politics, Preventing disease, Managing global commons.

AGR003 - Soil Science

Soil as natural resource, Soil texture, Particle size distribution, Bulk density and soil porosity, Soil water content, Water movement in soil, Environmental influence on soil formation, Properties of colloids in the soil environment, Types of soil acidity, Liming acid soils, Soil degradation by salinity and sodality, Soil testing, Available phosphorus in soils, Soil organic matter and chemical sorption, Microbial decomposition of organic materials in soil, Soil survey reports.

AGR005 - Farm Management

Farm management in the 21st century, Management principles, Acquiring and organizing management information, Asset valuation and depreciation, The balance sheet and its analysis, The income statement and its analysis, Economic principles – choosing production levels, Economic principles – choosing input and output, Cost concepts in economics, Partial budgeting, Whole farm budgeting, Cash flow budgeting, Forms of farm business organization, Managing risk and uncertainty, Managing income taxes, Investment analysis, Farm business analysis, Capital and the use of credit, Land – control and use, Human resource management, Machinery management.

AGR006 – Animal Science

Animal Agriculture, Breeds and life cycles of livestock and poultry, Animal products, Companion animals, Horses, Aquaculture, State of breeding of domestic animals, Anatomy and physiology of farm animals, The application of endocrinology to selected animals and humans, The physiology of growth and senescence, Anatomy and physiology of reproduction and related technologies in farm management, Artificial insemination, Physiology of lactation, Physiology of egg laying, Ecology of digestion in nutrition, The nutritional application of minerals to humans and animals, Animal disease and the health of humans, Selected insects and parasites of significance to humans and animals, Ethnology and animal behavior, Reference information.

AGR007 - General Crop Science

Crop production and society, Plant structure and function, Plant metabolism and growth, Crop improvement, Climate and weather, Soil and land, Plant and soil water, Pests in crop production, Agricultural production systems, Land preparation and farm energy, Seed and seeding, Harvesting and storage of crops, Marketing and handling grain crops, References.

AGR026 - Agricultural Business Management

Introduction: Forms of business ownership, Financial statements, Financial analysis and planning, Financing the business, Capital investment analysis, Strategic marketing, The marketing mix, Operations management, Managing organizations, Human resources management.

Electives Part 1: Select one course from –

ABR008 - Vegetable Crop Science

History of vegetable crops. Understanding the vegetable industry, Classifying vegetable crops, How environmental factors affect vegetable production, Plant selection considerations, Preparing the field, Planting the field, The need of water and irrigation, Extending the growth season, Dealing with growing problems, Harvesting, Harvesting the crops and delivering it to the buyer, Uses of vegetables, Nutritional value of vegetables, Cole crops, Greens, Leafy salad crops, Perennial crops, Bulb crops, Legumes and pulse crops, Sweet corn, Solanum crops, Cucrbits.

AGR009 - Fruit Tree Science

Introduction, The growing behavior of trees, Tree training, Pest and disease management, Fruit quality, Fruit harvesting, Overview of training methods, Factors in orchard design, Irrigation techniques, Reference information.

AGR010 - Soil Nutrient Science

Introduction, Basic soil-plant relationship, Soil acidity and alkalinity, Nitrogen, Phosphorus, Potassium, Sulfur, Calcium and magnesium, Micro-nutrients, Soil fertility evaluation, Fundamentals of nutrient management, Nutrients, Water use and other interactions, Economics of plant-nutrient use, Agricultural productivity and environmental quality.

Electives Part 2: Select one course from -

ARG011 - Cultivated Plant Science

The role of higher plants in the living world, Structure of higher plants, Naming and classifying plants, Propagation of plants, Origin, domestication and improvement of cultivated plants, Vegetable and reproductive growth and development, Photosynthesis, Respiration and translocation, Soil and soil water, Soil and water management and mineral nutrition, Climate influences on crop production, Biological competitors of useful plants, Harvest, Preservation, Transportation, Storage and marketing, Cultural practices in orchards and vineyards, Flowering and fruiting in fruit crops, Nursery production, Field above ground container and pot-in-pot cultures, Landscape trees, Deciduous broad – and narrow – leafed evergreens, Ornamental shrubs, Floriculture, Lawns and turf-grasses, Residual and public landscapes, Agronomic crops grown for fruits or seeds, Vegetable crops grown for flowers, leaves or stems, Vegetable crops grown for underground parts, Temperature zone and nut crops, Subtropical fruit and nut crops, Tropical fruit and nut crops, References.

AGR012 - Weed Science

Characteristics, Biology and Importance of weeds, The plant systems, The soil system, Methods of weed control, Introduction to herbicides, Plant-herbicide interactions, Soil-herbicide interactions, Herbicide resistance, Herbicide groups with significant foliar use, Trans-located herbicides showing initial symptoms on new growth – showing initial symptoms on old growth – Non- trans-located herbicides showing initial localized injury, Herbicide groups applied almost exclusively to the soil, Weed life cycles and management, Aquatic plant management, Herbicide formulations and packaging, Carriers, Spray additives and tank mixes, Herbicide application, Tillage equipment, Troubleshooting, Weed control in age of rapidly changing technology, Reference information.

AGR013 - Entomology and Pest Management

Introduction, Insect structure and life processes, Insect classification, The insect life cycle, Insect ecology, Surveillance and sampling, Economic decision levels for pest populations, Pest management theory, Management with natural enemies and other biological agents, Economical management of the crop environment, Managing insects with resistant plants

Electives Part 3: Select seven courses from –

AGR014 - Artificial Insemination and Embryo Transfer

Advantages of AI, Status and development of AI, Basic genetics of cattle breeding, Reproductive organs of the cow and their function, Reproductive organs of the bull and their function, Collection of semen from the bull, Evaluation of semen, General considerations, appearance and viability, Enumeration of spermatozoa, Live/dead staining, Morphology and other measurements, Extenders and extension of semen, Frozen semen, Cryogenic storage, Transportation and handling, Custom freezing of semen, How to inseminate cattle, AI of beef cattle, Controlled estrus – beef and dairy, Pregnancy determination in the cow, Reproductive efficiency – breeding problems – conception rates, ET and related practices, Selection of sires for AI use, Bull management and care, Health requirements for sires in AI use, the AI business – organization, records, accounting and regulations – concepts in operational AI business, Career opportunities, AI of dairy goats and sheep, AI of other farm animals and additional species, Reference information.

AGR015 - Animal Husbandry

Animal contribution to human needs, An overview of the livestock and poultry industries, Poultry and egg products, Milk and milk products, Wool and mohair, By-products of meat animals, Market classes and grades of livestock, Poultry and eggs, Visual evaluation of market animals, Reproduction, Artificial insemination, Estrous synchronization and embryo transfer, Genetics, Genetic change through selection, Mating systems, Nutrients and their function, Digestion and absorption of feed, Providing nutrients for body functions, Growth and development, Lactation, Adaptation to the environment, Animal health, Animal behavior, Issues in agriculture, Making effective management decisions, Beef cattle and breeding, Feeding and managing beef cattle, Dairy cattle breeds and breeding, Feeding and managing swine, Sheep breeds and breeding, Feeding and managing sheep, Horse breeds and breeding, Feeding and managing horses, Poultry breeding, feeding and management, Goat breeding, feeding and management, Careers and career preparation in the animal sciences, Aqua-culture, References.

AGR016 - Animal Nutrition

Introduction to nutrients, Digestive physiology and feed analysis, Concentrates, Energy sources, Other concentrate energy feeds, Protein sources, Roughage's forage harvesting and utilization, Micro-nutrients, Mineral and vitamin supplements, Feed additives, Feeding behavior and regulation of feed intake, Water usage, Diet formulation. Feed manufacturing and processing, Feeding and nutrition of – swine, avian species, beef cattle, small ruminants – sheep and goats, dairy cattle, horses and rabbits, Feeding and nutrition of companion animals – dogs and cats, Fur breeding animals, Feeding and nutrition of wild exotic and zoo animals, Feeding and nutrition of fish and other aquatic organisms, Reference information.

AGR017 - Animal Behaviour

Introduction to animal well-being, Biology of the stress response - stresses and control response systems, Biology of the stress – physiology and function, Control of behavior, Types of animal behavior, Design characteristics of the physical environment, Design characteristics of the dietary environment, Designing the social environment and animals, Reference information.

AGR018 - Animal Production Science

What is the “best” animal, How are animal population improved, Mendelain inheritance, Genes in population, Simply-inherited and polygenic traits, Selection of simply-inherited traits, The genetic model of quantitative traits, Statistics and their application to quantitative traits, Heritability and repeatability, Factors affecting the rate of genetic change, Genetic prediction, Large-scale genetic evaluation, Correlated response to selection, Multiple-trait selection,

Selecting for simply-inherited traits, Mating strategies based on animal performance: random and assortative mating, Mating strategies based on pedigree relationship: inbreeding and outbreeding, Hybrid vigor, Crossbreeding systems, Biology of animal breeding, Common-sense animal breeding, Reference information.

AGR019 - Beef Cattle Science

The commercial cow-calf program, Beef cattle selection and crossbreeding, Matching cow productivity and resources, The purebred program, Pregnancy, Parturition and care of the calf, Principles of feeding beef cattle, Forage and Roughage utilization, Managing the cow herd for reproduction, Management of nursing calves, Operation of the stocker program, Receiving programs for stressed stocker feeder cattle, The cattle finishing program, History, present and future trends, The importance of age and sex in growing and finishing, The importance of feeder grade to growing and finishing, Nutrition and management of finishing programs, References.

AGR020 - Poultry Science

The poultry industry, Avian anatomy and Physiology – the egg, incubation and standards, Poultry breeding, Feeds and additives, Fundamentals of poultry nutrition, Poultry feeding standards, Ration formulation and feeding programs, Poultry management, Poultry behavior, Poultry health and capons, Turkeys, Ducks, Geese and miscellaneous poultry, Business aspects of poultry production, Feed composition tables.

AGR021 - Horse Breeding Science

Considering the basic factors, Evaluating the basic factors, Choosing the breed, Providing physical facilities, Feeding, Handling and training, Grooming, Caring for feet, Recognizing illness and giving first aid, Parasites and disease, Riding and driving, Showing and racing, Sports events, Breeding the stallion, Breeding the mare, Care during and after pregnancy, Basic genetics, Business practices, Reference information.

AGR022 - Dairy Science

The dairy industry, Breeds of dairy cattle, Establishing the herd, Selecting and judging, Fitting and showing dairy cattle, Breeding dairy cattle, Sterility and delayed breeding in dairy cattle, Pasture and green crop, Hay and dry roughage's, Silage and haylage, Concentrates, Supplements and additions, Fundamentals of dairy cattle nutrition, Dairy feeding programs, Dairy cattle behavior, Environmental management, Health, Disease prevention and parasite control, Dairy cattle buildings and equipment, Dry cows, Replacement heifers, Dairy beef, Milk selection and handling, Marketing milk and dairy products, Business aspects of dairying, Feed composition, Tables and references.

Electives Part 4: Select one course from –

AGR023 - Cotton Crop Production

The origin and domestication of cotton, Taxonomy and germplasm resources, Development of world cotton industry, History of cultivar development, Morphology of the cotton plant, Physiology of the cotton plant, Fiber quality, The cotton seed, Qualitative genetics, Techniques of new cultivars, Future horizons, Bio-technology for cotton improvement, Production statistics, Insect and mite pests of cotton, Diseases of cotton, Cotton nematodes, Weeds and their control, Cotton marketing, Ginning, Classing of fiber, The spinning process, Yarn preparation, Fabric formation and finishing, Cotton-seed processing, Reference information.

AGR024 - General Crop Production

Introduction, Corn production, Wheat production, Grain production, Grain sorghum production, Barley production, Rice production, Cotton production, Soybean production, Peanut production, References.

AGR025 - Pasture Production

Introduction, Historical perspective, Pasture production and the environment, Different pasture species, Pasture management, Pasture and agriculture, Future perspectives.
