

Pending State Approval

Program Number 31-001-X
Technical Diploma • Two Terms

ABOUT THE PROGRAM

Successful individuals employed in agriculture occupations need a basic understanding of industry specific financial operations, goal-setting, human relations, crops, soil management, as well as livestock fundamentals.

PROGRAM OUTCOMES

- Apply relevant technologies.
- Investigate opportunities in agribusiness.
- Interact as a professional in agribusiness.

ADMISSIONS STEPS

- Work with LTC's Admissions Specialist to:
 - Submit application and \$30 fee.
 - Complete an assessment for placement (Accuplacer or ACT).
 - Submit official transcripts (high school and other colleges).
- Meet with program advisor to discuss program details.
 - Complete Functional Ability Statement of Understanding.

APPROXIMATE COSTS

- \$132 per credit (resident)
- \$198 per credit (out-of-state resident)
- Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.) Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

PLACEMENT SCORES

Accuplacer/ACT scores will be used to develop your educational plan. Contact your program advisor for details.

SPECIAL NOTE

This diploma is embedded within the Agribusiness Science & Technology Associate degree. This means that Agriculture Technician graduates have the opportunity to also complete their associate degree with one more year of college.

MPTC CLASSES

This program is shared with Moraine Park Technical College. MPTC district students follow LTC's admissions process; however, they are able to attend classes at a MPTC campus classroom by receiving both in-person and ITV-broadcast instruction. MPTC Agriculture Technician program students will be issued a laptop from LTC while learning and applying the program's software applications.

ONLINE STUDENTS

Out-of-district students, working adults, as well as high school students are able to take courses in the on-line format of both reviewing lectures and one-on-one activities with your instructor. Instructor led field trips and off campus activities are not an included requirement or opportunity.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

CONTACT

Chou Yang, Admissions Specialist
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Catalog No.	Class Title	Credit(s)
Term 1		
10006110	Agricultural Finance	2
10006112	Farm Business Management	2
10006114	Intro to Animal Science	2
10006116	Intro to Soil Science	2
10801195	Written Communications	3
10804123	Math with Business Applications	3
		14
Term 2		
10006120	Animal Health	2
10006122	Principles of Crop Production	3
10006124	Principles of Animal Breeding	3
10006132	Reproductive Physiology	3
10006126	Agribusiness Economics	3
10809195	Economics	3
		17
		TOTAL 31

Curriculum and Program Acceptance requirements are subject to change.
Program start dates vary; check with your advisor/counselor for details.



AGRIBUSINESS ECONOMICS...introduces agricultural economic dimensions and impacts, economic principles, calculation of economic returns, and evaluation of economic alternatives. Other topics include capital use, cost appraisal, risk considerations under a variety of economic conditions, farm credit sources, and creditor relationships. PREREQUISITE: 10006110 Agricultural Finance

AGRICULTURAL FINANCE...introduces learner to major aspects of agribusiness financial management through extensive problem solving, financial analysis and financial planning. Students will describe and calculate sweet 16 ratios, business cash flows, inventory controls, budgeting and borrowing considerations of various types of agribusinesses. Software tools, such as QuickBooks and FINPACK, will be introduced.

ANIMAL HEALTH...examines the disease process and the immune response in animals, common diseases of domestic livestock, and related intervention practices with emphasis on maintaining healthy animals. PREREQUISITE: 10006114 Intro to Animal Science

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: 10838105 Intro Reading and Study Skills or equivalent

FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized. Software tools, such as QuickBooks, FINPACK, PCDART and DairyCOMP 305, will be incorporated.

INTRO TO ANIMAL SCIENCE...provides animal science fundamentals including animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal-related safety.

INTRO TO SOIL SCIENCE...provides fundamental of soil's physical properties, chemical properties, biological properties, soil formation, classification, essential nutrient and soil survey. There will be emphasis on soil and water conservation practices that can be used to reduce soil erosion.

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. PREREQUISITE: 10834109 Pre-Algebra or equivalent and COREQUISITE: 10838105 Intro Reading and Study Skills or equivalent

PRINCIPLES OF ANIMAL BREEDING...applies genetic principles to livestock improvement including elementary population genetics, phenotypic and genotypic effects of selection, selection methods, and systems of mating. PREREQUISITE: 10006114 Intro to Animal Science

PRINCIPLES OF CROP PRODUCTION...provides knowledge of crop and soil nutrient management, including use of both commercial fertilizers and manure. Course topics include purchase or lease options for land, agronomy consulting programs, tillage and conservation plans, soil nutrient plans, cropping plans, managing nutrient waste, crop harvest and storage and production records. PREREQUISITE: 10006116 Intro to Soil Science

REPRODUCTIVE PHYSIOLOGY...provides advanced study of the reproductive processes of livestock including anatomy, endocrinology, gonadal function, fertility, and factors influencing reproductive performance. COREQUISITE: 10006124 Principles of Animal Breeding

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. PREREQUISITE: 10831103 Intro to College Wrtg equivalent and COREQUISITE: 10838105 Intro Rdg & Study Skills or equivalent