



COLLEGE OF AGRICULTURE AND LIFE SCIENCES
**AGRICULTURAL AND
APPLIED ECONOMICS**
VIRGINIA TECH.

**Department of Agricultural and
Applied Economics**
250 Drillfield Drive
Hutcheson Hall, Suite 208
Blacksburg, Virginia 24061
P: (540) 231-6301
F: (540) 231-7417
vtagecon@vt.edu

To: Dr. Frank Shushok
President
Roanoke College

From: Dr. Cyril Clarke
Vice President and Provost
Virginia Tech

Dr. Alan L. Grant
Dean, College of Agriculture and Life Sciences
Virginia Tech

Dr. Aimee M. Surprenant
Dean, Graduate School
Virginia Tech

Re: Collaborative Undergraduate-Graduate Online Master's Degree Articulation Agreement
with Virginia Polytechnic Institute and State University

For the Department of Agricultural and Applied Economics graduate program

This Articulation Agreement, effective February 1, 2024, is made by and between Virginia Polytechnic Institute and State University, known as Virginia Tech (VT), and an eligible college or university, referred to as Partner Institution in this Agreement. In this instance, the Partner institution is Roanoke College.

Partner Institution offers a Bachelor-level degree and courses that provide the prerequisites needed for admission to the following graduate degree programs at VT:

- VT's Department of Agricultural and Applied Economics (AAEC), online Master of Agricultural and Applied Economics

Program Goals

The goal of the Collaborative Undergraduate/Graduate (UG/G) program in the Masters of Agricultural and Applied Economics is to enable qualified undergraduate students, including non-AAEC majors, to take courses toward a VT Master's degree in Agricultural and Applied Economics while completing their BS/BA degree.

This Agreement provides a path for admission into the graduate program for which the student applies (Table 1 in the Addendum) and allows a set of approved courses as recommended in Table 2 in the Addendum taken at Roanoke College to transfer to Virginia Tech to count toward the 30 credit hour Master's degree.

The Collaborative UG/G program's benefit is reducing the time to completion of a graduate degree and facilitating an early transition into the AAEC M.S. degree program. If Roanoke College offers eligible graduate-level credit, participating students can take up to 12 graduate credits deemed eligible for transfer to a VT graduate degree. If Roanoke College does not offer graduate-level credit, participating students can take up to 6 undergraduate credits deemed eligible for transfer to a VT graduate degree. Students at Roanoke College may also earn a Master's degree in AAEC by completing all 30 credits through VT. The grades received for transferred graduate course credits at the partner institution do not determine the VT GPA.

Program Advertising and Promotion to Students

Roanoke College will lead in advertising the Collaborative UG/G program to its current and prospective students. This advertising will include outreach to high schools from which the home institution draws its students and to current eligible students. VT will participate in recruitment events organized by Roanoke College to the extent mutually deemed necessary.

Program Requirements, Characteristics, and Application Process

Access to the program is limited to those currently enrolled at Roanoke College. Interested students must apply to VT's AAEC MS Collaborative UG/G program before the last 12 months of their undergraduate degree (i.e., in the 2nd semester of a student's Junior year), and be accepted in the program.

Applications must be submitted online and the application fee will be paid for by VT AAEC for Roanoke College. Instructions will be provided as part of the online application process before submission. This process will allow all applicants to apply without an application fee. Application to the VT AAEC MS graduate degree does not require submission of GRE scores. Admission to the Collaborative UG/G program requires a minimum overall GPA of 3.3 at the time of application. Applications must meet the admission requirements, including submission of official transcripts for all non-VT coursework.

Upon submission of the application for admission to the Collaborative UG/G Program, the student must immediately complete and submit the Collaborative UG/G Program and Course Designation Form. This form lists all courses the student intends to take during the Collaborative UG/G program to be transferred to VT. This form will be

reviewed and approved by the Department of Agricultural and Applied Economics and VT College of Agriculture and Life Sciences. Approved courses will be reviewed annually by Roanoke College and VT.

The student must adhere to Graduate School policy and do the following to remain in good standing while in the Collaborative UG/G program:

- Only credits taken in the last 12 months of the undergraduate degree are eligible for transfer toward the graduate degree
- A minimum GPA of 3.3 is required at the time of application to the program; once accepted into the program students must maintain an overall GPA of 3.0 for the remainder of their undergraduate coursework
- Once completion of the undergraduate degree has been verified, a student accepted into the Collaborative program will be classified as a graduate student
- A maximum of 12 credits from Roanoke College may be transferred; no more than 6 transfer credits may be at the undergraduate level (e.g., comparable to a 4000-level course at VT)
- A grade of B or better must be earned in each course to be transferred
- Once accepted into the Collaborative UG/G program, the student should complete the graduate courses they intend to transfer to VT before their undergraduate degree completion. The remaining graduate courses will be taken during their time at VT

Justification and Quality Review Process

Faculty at both institutions were involved in forming the Articulation Agreement with the review of course syllabi inclusive of learning outcomes to ensure that degree requirements were met. Signatures from the program directors at each institution are required for approval of courses and any adjustments that may occur to meet the undergraduate and graduate policies (e.g., VT Policy 6700) for the transfer of credit in the UG/G agreement. An annual review of courses by faculty at both institutions will ensure quality and timely additions and edits to the courses listed in the Addendum.

Accreditation Status

This Articulation Agreement is contingent upon each institution's good standing with SACSCOC.

Modifications

Modifications of the Articulation Agreement must be agreed to by the parties in writing.

Force Majeure

The performance of the Articulation Agreement by either party shall be subject to force majeure including, but not limited to, acts of God, fire, flood, natural disaster, war or threat of war, acts or threats of terrorism, civil disorder, unauthorized strikes, governmental regulation or advisory, recognized health threats as determined by the

World Health Organization, the Centers for Disease Control, or local government authority or health agencies (including but not limited to the health threats of COVID-19, H1N1, or similar infectious diseases), curtailment of transportation facilities, or other similar occurrences beyond the control of the parties, where any of those factors, circumstances, situations, or conditions or similar ones prevent, dissuade, or unreasonably delay the undergraduate/graduate program, or where any of them make it illegal, impossible, inadvisable, or commercially impracticable to hold the undergraduate/graduate program or to fully perform the terms of the Articulation Agreement. The Articulation Agreement may be canceled by either party, without liability, damages, fees, or penalty, for any one or more of the above reasons, by written notice to the other party.

Term and Termination

This Agreement shall be effective as of the date of the execution and shall continue for a term of 5 years, after which time this Agreement shall be automatically renewed for 5 years terms unless otherwise terminated herein. This Agreement may be terminated by either party by providing one calendar year prior written notice to the other party.

Termination of this Agreement shall not affect students who are currently participating in the UG/G program and the terms of this Agreement shall continue to apply to students until the completion of their undergraduate degree and graduate degree.

What You Need to Apply

Students should have a 3.3 GPA or higher in their undergraduate coursework. For admission, students must demonstrate proficiency in basic algebra, differential calculus, basic statistics and probability, and intermediate microeconomic theory. GRE and GMAT scores are **not** required.

Please prepare the following materials to complete the online application via Virginia Tech's Graduate School webpage.

- Current resume
- An official transcript from all universities or colleges where you earned a degree
 - Students with degrees from universities outside the U.S. will need to submit a report from a credential evaluation service and a translation into English if necessary. See additional details on the Apply Now page (<https://graduateschool.vt.edu/admissions/how-to-apply.html>).
- Three letters of recommendation, to be submitted electronically
- Academic and professional goals statement (as required for all Virginia Tech graduate students)
 - Applicants are asked to provide a 1 - 2 page, double-spaced personal statement which includes the following:
 - Why do you want to undertake graduate work now?
 - Why at Virginia Tech?
 - What do you expect to derive from your program of study?
 - What do you expect to contribute as a student and subsequently as a member of the profession?

Links to Curriculum

VT's Graduate School Catalog

https://secure.graduateschool.vt.edu/graduate_catalog/program.htm?programID=002d14431ce38e83011ce38e98790059&nocache=1700075869919

Link to VT Undergraduate Transfer Equivalency Database

The Transfer Equivalency Database reflects courses evaluated for transfer credit for Roanoke College. https://apps.es.vt.edu/ssb/hzsktgid.P_DisTranGuide

Signed by:

Dr. Frank Shushok
President, Roanoke College

Date

Dr. Cyril Clarke
Vice President and Provost, Virginia Tech

Date

Dr. Alan L. Grant
Dean, College of Agriculture and
Life Sciences, Virginia Tech

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Dr. Aimee M. Surprenant
Dean, Graduate School, Virginia Tech

Date

Addendum Roanoke College

Pathway for Roanoke College students to the Roanoke College / Virginia Tech Collaborative UG/G for the online Masters of Agricultural and Applied Economics

Roanoke College students are eligible to apply in their Junior year and be accepted into the Roanoke College/Virginia Tech Collaborative UG/G Program for the online Masters of Agricultural and Applied Economics by completing the following courses by the second semester of their Junior year.

Table 1: Pathway courses (non-transferable). Our expectation is students would have an overall 3.0 grade average in the courses listed below with no grade lower than a B-.

Roanoke College Courses	Virginia Tech Equivalent
<p>MATH 121 - Calculus I:</p> <p>The analysis of limits, derivatives, integrals, and their applications for functions of one variable.</p>	<p>MATH 1225 - Calculus of a Single Variable (4 credits):</p> <p>Quantitative and computational thinking to address relevant intercultural and global issues. Unified calculus course covering techniques of differential and integral calculus for functions of one variable. Constitutes the standard first-year mathematics courses for science and engineering. Limits, continuity, differentiation, transcendental functions, applications of differentiation, introduction to integration.</p>
<p>STAT 210 - Statistical Methods I:</p> <p>Data collection and experimental design, graphical and numerical methods for describing data, correlation and linear regression, probability models, random variables, the central limit theorem, one and two-sample hypothesis tests and confidence intervals, Chi-Square test, and one-way ANOVA.</p>	<p>No Virginia Tech equivalent course offered</p>
<p>or STAT 220 - Statistical Methods II:</p> <p>Simple and multiple regression techniques, one and two-way ANOVA, nonparametric methods, logistic regression, big data, and bootstrap methods.</p>	<p>STAT 3006 - Statistical Methods (3 credits):</p> <p>Basic statistical methodology: exploratory data techniques, estimation, inference, and comparative analysis by parametric, nonparametric, and robust procedures. Analysis of variance (one-way), multiple comparisons, and categorical data. Includes real-world examples. Develops problem-solving skills and ethical reasoning</p>

	within the context of learning from data. 3006: Analysis of variance, simple and multiple, linear and nonlinear regression, analysis of covariance.
ECON 321 - Intermediate Microeconomics: In-depth coverage of contemporary economic discourse, with an emphasis on the pricing mechanism, competitive and imperfectly competitive markets, game theory, the distribution of income, and public economics.	AAEC 3004 - Agricultural Production and Consumption Economics (3 credits) The economic principles of production. Applications to decision-making and the allocation of resources for the agricultural firm. Consumer behavior and demand for agricultural products.
BUAD 342 - Corporate Finance: The principles of asset management, financial structure, and types of securities and their characteristics.	AAEC 3424 - Value-Based Management in Agribusiness (3 credits) Focus on finance concepts in the agricultural and environmental sectors. Apply the value-based management principles and financial analysis to industry-related cases. Estimate cost of capital, free cash flow, and net present value. Team-based approach on a real-world valuation case.

Roanoke College courses that are eligible for transfer into the online Masters of Agricultural and Applied Economics. To be admitted, students must have an overall GPA of or above 3.3. A grade of B or better must be earned in each course to be transferred.

Table 2: Transferable courses

Roanoke College Courses	Virginia Tech Equivalent
BUAD 442 - Finance Capstone	AAEC 4404 - Ag Management and Problem Solving
ECON 461 - Economics Seminar	AAEC 4414 - Applied Economic Problem Solving

As opportunities arise, other courses may be reviewed and added to the transfer list for the Masters of Agricultural and Applied Economics at Virginia Tech by mutual consent of both parties. Likewise, should the content in BUAD 442, ECON 461, or any other course offered at Roanoke College included in the above list change substantively, the responsible parties at Roanoke College are obligated to promptly notify their Virginia Tech counterparts that are parties to this agreement.