

**Career and Technical Education
Master of Science Degree
Teacher Licensure Concentration
Agricultural Education, Business and Information Technology,
Family and Consumer Sciences Education, Marketing Education**

Summer I (6 credit hours)
¹ EDEP 5154 Psych Foundations for Teachers (online) (3 credits) ¹ EDCI 5264 Comprehension and Content Reading (online) (3 cr. hrs.)
Summer II (6 credit hours)
EDCT 5614 Curriculum in CTE (3 cr. hrs) EDCT 5624 Managing Car & Tech Wk Prog (3 cr. hrs)
Fall (18 credit hours)
EDCT 5654 Strategies for Teaching CTE (3 cr. hrs) EDCT 5964 Field Study <u>or</u> ALCS 5964(3 cr. hrs.) EDCT 5784 GS: Student Assessment in CTE (3 cr. hrs.) ALCE 5044 Advanced Program and Curriculum Design (3 cr. hrs.) ¹ EDCI 5104 Schooling in American Society (3 hrs.) ¹ EDCI 5554 Ed Except Learners (3 cr. hrs)

Spring (18 credit hours – Student Teaching Semester)			
AGED	BIT	FCS	MKED
ALCE 4764 Intern In ALCE 6 hrs ALCE 3084 Ag Metal Feb. 3 hrs EDCT 5754 Intern in Ed 3 hrs. EDCT 5684 Adv C&P Mgt 3 hrs EDCT 5964 Field Study 3 hrs.	EDCT 4754 Inter in Ed 6 hrs. EDCT 5754 Inter in Ed 3 hrs. EDCT 5964 Field Study 3 hrs EDCT 5684 Adv C&P Mgt 3 hrs EDCT 5784 GS: Keyboarding 3hrs	EDCT 4754 Inter in Ed 6 hrs. EDCT 5754 Inter in Ed 3 hrs. EDCT 5964 Field Study 6 hrs EDCT 5684 Adv C&P Mgt 3 hrs	EDCT 4754 Inter in Ed 6 hrs EDCT 5754 Inter in Ed 3 hrs EDCT 5964 Field Study 6 hrs EDCT 5684 Adv C&P Mgt 3 hrs

¹Courses may be taken during senior year with proper credentials. (See pages 7 and 8)

Note: See additional requirements on the following pages.

For more information contact:

Dr. Joseph Mukuni
CTE Program Leader
mjoseph7@vt.edu

Important Information

Content Area Course Requirements for each endorsement area: See Pages 3, 4, 5, or 6.

Program Admissions Requirements: Praxis I (*SAT or **ACT scores can substitute for Praxis I)

3.0 GPA

Interest in teaching

Interview with CTE faculty member

*The Virginia Department of Education announce on March 24, 2004, that the Board of Education approved the use of SAT or ACT scores as a substitute test for Praxis (Reading, Writing & Mathematics) required for licensure.

SAT scores obtained before April 1, 1995 must be at least 1000 with at least 450 on the verbal section and 510 on the mathematics section. Scores obtained after April 1, 1995 must be at least 1100 with at least 530 on the verbal section and 530 on the mathematics section in order to substitute for Praxis I.

** ACT scores obtained prior to April 1, 1995 must a composite score of 21 with at least a score of 21 on the Mathematics section and at least a score of 37 on the English plus Reading section. Scores obtained after April 1, 1995 must be a composite score of at least 24 with at least a score of 22 on the Mathematics section and a score of 22 and at least a score of 46 on the English plus Reading section.

Additional VDOE Requirements

Must be completed before entering the program

- Praxis II (Content area exam) – For FCS, BIT, and MKED students only
- VCLA Exam

Must be completed while in the program

- Blood Borne Pathogen Seminar (Provided by SOE when you are in the program)
- Child Abuse Seminar (Online -- taken while you are student teaching)
- Dyslexia Seminar - (Online – taken while in the program)
- At least one industry certification from the list provided by VDOE (If not obtained prior to entering program, an opportunity will be provided by VT CTE to obtain one.)
- Work experience in field related to your teaching area
- CPR Certification

Agricultural Education

Content Area Course Requirements Endorsement requirements.

The candidate shall have:

1. Earned a baccalaureate degree from a regionally accredited college or university and graduated from an approved teacher preparation program in agricultural education; or
2. Earned a baccalaureate degree from a regionally accredited college or university and completed 39 semester hours of coursework in agriculture, including at least 3 semester hours in each of the areas in subdivisions 2 a through 2 f of this subsection, as well as a minimum of 9 semester hours in one concentration area listed in subdivisions 2 a through 2 f:
 - a. Plant science;
 - b. Animal science;
 - c. Agricultural mechanics and applied technology with a lab component;
 - d. Agricultural economics and management;
 - e. Forestry and wildlife management;
 - f. Horticulture; and
 - g. Supervised occupational experience, 3 semester hours, or one year of successful, full-time or the equivalent (a minimum of 2,000 cumulative hours) relevant occupational experience within the past five years.

If an individual is seeking an initial license in the Commonwealth with an endorsement in the area of career and technical education, an industry certification credential as defined in [8VAC20-23-10](#) in the area in which the teacher seeks endorsement is required.

Business and Information Technology Content Area Course Requirements

The candidate must have completed 39 semester hours of coursework distributed in the following areas:

A. Endorsement requirements. The candidate must have:

1. Graduated from an approved teacher preparation program in business and information technology
2. Completed 39 hours of coursework in business and information technology, including:
 - a. Accounting: 6 semester hours;
 - b. Economics: 3 semester hours;
 - c. Business law, business principles, management, marketing, or finance: 9 semester hours;
 - c. Communications: 3 semester hours;
 - e. Information systems and technology to include computer software applications (word processing, spreadsheet, database, and presentation) information technology fundamentals, database management, programming, and networking: 12 semester hours;
 - f. Input technologies to include touch keyboarding (required), speech recognition, handwriting recognition, Personal Digital Assistants (PDAs) and other hand held devices, touch screen or mouse, scanning, and other emerging input technologies 3 semester hours; and
 - g. Supervised occupational experience, 3 semester hours, or one year of successful, fulltime or the equivalent (a minimum of 2,000 cumulative hours) relevant occupational experience within the past five years.

If an individual is seeking an initial license in the Commonwealth with an endorsement in the area of career and technical education, an industry certification credential as defined in [8VAC20-23-10](#) in the area in which the teacher seeks endorsement is required.

**Family and Consumer Sciences Education
Content Area Course Requirements**

The candidate must have completed 39 semester hours of coursework distributed in the following areas:

- a. Development of individual and family: 9 semester hours;
- b. Management, family finance, and consumer economics: 6 semester hours;
- c. Food and nutrition: 6 semester hours;
- d. Housing, home furnishing, and equipment: 6 semester hours;
- e. Clothing and textiles: 3 semester hours;
- f. Health: 3 semester hours;
- g. Occupational program management: 3 semester hours; and
- h. Supervised occupational experience, 3 semester hours, or one year of successful, full-time or the equivalent (a minimum of 2,000 cumulative hours) relevant occupational experience within the past five years.

If an individual is seeking an initial license in the Commonwealth with an endorsement in the area of career and technical education, an industry certification credential as defined in [8VAC20-23-10](#) in the area in which the teacher seeks endorsement is required.

**Marketing Education
Content Area Course Requirements**

A. Endorsement requirements. The candidate must have:

1. Graduated from an approved teacher preparation program in career and technical education;
2. Completed 39 hours of coursework in marketing, including:
 - a. Marketing processes and environment: 3 semester hours;
 - b. Management and supervision: 6 semester hours;
 - c. Economics: 3 semester hours;
 - d. Merchandising and operations: 3 semester hours;
 - e. Advertising and promotion: 3 semester hours;
 - f. Sales and selling: 3 semester hours;
 - g. Communication theory and techniques: 3 semester hours;
 - h. Consumer behavior: 3 semester hours;
 - i. International (global) marketing: 3 semester hours;
 - j. Finance, accounting, or marketing mathematics: 3 semester hours;
 - k. Technology applications: 3 semester hours; and
 - l. Supervised occupational experience, 3 semester hours, or one year of successful, fulltime or the equivalent (a minimum of 2,000 cumulative hours) relevant occupational experience within the past five years.

If an individual is seeking an initial license in the Commonwealth with an endorsement in the area of career and technical education, an industry certification credential as defined in [8VAC20-23-10](#) in the area in which the teacher seeks endorsement is required.

Undergraduates Taking Graduate Courses

Seniors

Students in their senior year, with a 3.0 or better GPA, may enroll in 5000-level courses satisfying undergraduate degree requirements within their department with the permission of the course instructor and the Department Head. Should the student become a graduate student, these courses may not be used on the Plan of Study for a graduate degree.

Dual Student Status

Seniors in a bachelor's degree, who have a GPA of 3.0 or better may be eligible for Dual Status during the final semester of their undergraduate degree. To obtain this status, students must file an application for the master's degree and the Accelerated Undergraduate/Graduate Degree and Course Designation Form (for obtaining Dual Status)

(http://graduateschool.vt.edu/content/dam/graduateschool_vt_edu/GAAPforms/Accelerated_Undergraduate_Graduate_Status.pdf). The department reviews the student for master's acceptance and, if this is recommended, indicates on the Admission Analysis form that the student will be accepted for Dual Status for the final semester of the undergraduate degree. This acceptance must occur prior to the final semester of the undergraduate degree. Graduate coursework taken during the semester of dual registration may only be designated for use in the graduate degree when it is not used to meet bachelor's degree requirements (i.e., each course taken during the final semester is specified as being for either the bachelor's or the master's degree).

Accelerated Undergraduate/Graduate Degree Programs

In accordance with the CGS&P policy for the accelerated undergraduate/graduate degree programs, "each graduate degree program wishing to offer one or more accelerated undergraduate/graduate degree programs must submit a written description of their program to the Graduate School for review and approval before students may be admitted hereto."

Consistent with Graduate School policy, the standards for each program must meet the minimum requirements but can exceed these (e.g., GPA, fewer courses to be double counted). These regulations include the following:

- Students must be accepted into the program prior to the beginning of the semester in which they would enroll in courses to be used on the accelerated program. Students qualifying for the program must be in the last 12 months of their undergraduate degree. Once completion of the undergraduate degree has been verified, students accepted into this accelerated program will be classified as regular graduate students.
- A maximum of 12 credits of graded coursework may be used in the program.
- No more than 6 of the double-counted credits may be at the 4000 level; all others must be offered for graduate credit.
- A grade of B or higher must be earned in each course to be double counted.
- Courses must not be taken pass-fail if a graded option is available.

Programs that intend to accept students into an accelerated graduate program must submit a proposal to the Graduate School that includes the following:

- Accelerated program(s) to be offered. These can include programs designed for VT students as well as non-VT students from U.S. institutions or in partnership with international institutions.
- Graduate degrees included - master's or doctoral degrees, or both.
- Admission criteria and application materials required, including but not necessarily limited to student status, minimum GPA requirement, statement of motivation and career objectives, student's experience and qualifications as reflected in a resume, a portfolio, and/or letters of reference.
- The number of credits to be double counted towards undergraduate and graduate degrees.
- Process for identifying potential students and faculty advisors, and for mentoring during program.
- Tentative listing of courses that the department expects to be used for graduate plans of study for students in the program.
- Other conditions or aspects of the proposed program as appropriate.

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ACCELERATED UNDERGRADUATE/GRADUATE DEGREE AND COURSE DESIGNATION FORM

This form is used as a cover sheet to notify the Graduate School that the department supports a student's pursuit of the following program. Students must also submit a formal Graduate School application for admission and be admitted to the designated program, prior to receipt of this form. All course information must be completed in full. Requests that do not provide required information *cannot* be processed.

Check applicable program:

Please refer to the *Undergraduates Taking Graduate Courses* section within the current Graduate Catalog for specific requirements detailing each status. www.grads.vt.edu (Academics/Graduate Catalog)

- | | |
|---|--|
| <input type="checkbox"/> ACCELERATED UG/GR DEGREE | <input type="checkbox"/> DUAL STUDENT STATUS |
| <input type="checkbox"/> BACHELORS TO MASTERS | <input type="checkbox"/> 152HR ACIS MASTERS DEGREE |
| <input type="checkbox"/> BACHELORS TO DIRECT PHD | <input type="checkbox"/> COMBINED STUDENT STATUS (ARCHITECTURE ONLY) |

PERSONAL INFO

LAST/FAMILY NAME _____ Last 4 digits of VT ID Number _____ <hr/> Date of Birth: _____ <small>month/day/year</small> <hr/> E-mail Address: _____ <small>@vt.edu account, preferred</small> <hr/> Daytime Phone: _____ <small><input type="checkbox"/> Home <input type="checkbox"/> Office <input type="checkbox"/> Mobile</small> <hr/> Local Address _____ _____ _____ city state zip country	FIRST/GIVEN NAME _____ MIDDLE NAME _____ SUFFIX _____ <hr/> Citizenship <input type="checkbox"/> U.S. CITIZEN <input type="checkbox"/> PERMANENT RESIDENT <input type="checkbox"/> NON-U.S. CITIZEN* <i>*If non 8 6 FLWLJHQ, please list your visa status:</i> _____ <hr/> Current Program _____ Campus <input type="checkbox"/> BLACKSBURG <hr/> Anticipated Completion of Bachelors Degree <input type="checkbox"/> FALL <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER I _____ <input type="checkbox"/> SUMMER II _____ year <hr/> Term to Begin Counting Graduate-Level Credit <i>(within the last two semesters of the undergraduate degree)</i> <input type="checkbox"/> FALL <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER I _____ <input type="checkbox"/> SUMMER II _____ year <hr/> First Term of Enrollment as a Graduate Student <input type="checkbox"/> FALL <input type="checkbox"/> SPRING <input type="checkbox"/> SUMMER I _____ <input type="checkbox"/> SUMMER II _____ year
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REQUIRED INFO

TERM	YEAR	DEPARTMENT	COURSE NUMBER	CRN (IF KNOWN)	# OF CREDIT HOURS	COURSE TITLE

UPDATED FROM INITIAL SUBMISSION

STUDENT SIGNATURE date

Required Signatures

SIGNATURES

ADVISOR signature	printed name	e-mail (@vt.edu, preferred)	date
DEPARTMENT HEAD signature or authorized GRADUATE PROGRAM DIRECTOR	printed name	e-mail (@vt.edu, preferred)	date
DEPARTMENT CONTACT (GRADUATE STAFF COORDINATOR) signature			date
GRADUATE SCHOOL signature			date

Return your completed form to:
Graduate School
 GLC at Donaldson Brown
 Virginia Tech (0325)
 Fax: 540/231-2727

Questions? Call 540/231-8636 or e-mail grads@vt.edu for assistance.