

EDUCATION (EDUC)

Faculty

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The education department works to prepare students for prominent roles as public intellectuals. We seek to cultivate citizens who are broadly educated, thoughtful, and committed to lifelong learning as a means to better themselves and society. Our blend of social sciences and professional preparation coursework is theoretically grounded and presents educational issues within social contexts that are diverse and evolving. Graduates will use their capacity for self-reflection and ethical reasoning to respond creatively to challenges encountered in their personal and professional lives.

The department offers both the Bachelor of Arts and Bachelor of Science in education. A major in education within either degree program can prepare students to pursue careers in teaching. It also provides the necessary background and preparation for graduate work in an array of disciplines, and for careers in law, business, and public service. Students interested in secondary or K-12 certification seek a degree in the discipline they wish to teach and may either pursue certification only or a dual major in education and the discipline.

The Bachelor of Arts degree with a major in education is designed for students who are interested in studying the process and structure of education and schooling, but who are not necessarily interested in pursuing a career in teaching. Students who want to obtain certification in early childhood education should pursue the Bachelor of Science in education degree. Students interested in secondary certification normally seek a degree in the discipline they wish to teach and may either pursue certification only or a dual major in education and the discipline.

Bachelor of Arts in Education

The field of education is best understood as an interdisciplinary social science that integrates multiple perspectives on human learning and development, processes that occur across the lifespan and in widely varied contexts. The Bachelor of Arts in Education is designed for students who are interested in studying education as an academic field – the process and structure of education in both traditional schooling situations as well as other educational arenas of public life – but who are not necessarily interested in a career in public school teaching. Central to the bachelor of arts is the examination of the relationship between educational institutions (broadly conceived) and society, as well as deep exploration of the nature of learning and learners. The program is designed to prepare students to make original contributions to knowledge in the field through research and creative applications of theory.

The bachelor of arts **major** in Education requires eight (8) courses that fall into two categories. First, all students must complete a core set of four (4) requirements:

EDUC 101	Social Foundation of Education	1
EDUC 201	Educational Psychology	1
EDUC 362	Quantitative Research Methods	1
or EDUC 364	Qualitative Research Methods	
Select one of the following		1
EDUC 315	Senior Thesis	
EDUC 425	Internship in Education	

Second, all students must complete four (4) additional courses in one of the following concentrations. Electives, where specified, may be taken abroad in consultation with the student's adviser. Students develop competency in speaking, writing, and information literacy through the completion of small group and individual presentations and research projects within core and concentration courses. To fulfill their Culminating Experience requirement, students either write and defend an undergraduate thesis (EDUC 315 Senior Thesis), or complete an internship experience (EDUC 425 Internship in Education) and document their work via an electronic portfolio.

College Student Personnel

The College Student Personnel concentration is designed for those who have an interest in student affairs administration in higher education. Student affairs administration is a broad field that includes such areas of specialization as residence life, student activities, admissions, and career services, just to name a few. Bucknell is unique in offering an undergraduate course sequence that introduces students to the foundational literature of the field before enrollment in graduate school. This concentration prepares graduates for advanced coursework in the field and serves as a foundation

for professional practice in graduate assistantships and other entry-level positions. The recommended academic credential for those aspiring to long-term careers in the field is the Master's Degree in College Student Personnel.

The College Student Personnel concentration requires:

EDUC 312 or EDUC 319	Counseling Techniques Group Processes	1
EDUC 350	Higher Education in the United States	1
EDUC 351	Learning and Development in Postsecondary Education	1
EDUC 398	Student Affairs Programs in Higher Education	1

Contemporary Landscapes of Education

In light of the shifting demographics and changes in the context of learning, this concentration is designed for students who are interested in studying entrepreneurial innovations in education such as charter schools, after-school programs, cyberschools, home schooling, and alternative teacher preparation programs. This concentration aims to prepare students to think critically about the ways in which these alternative educational programs influence education in U.S. society, and supports those who wish to work within these types of settings.

The Contemporary Landscapes of Education concentration requires:

EDUC 232	Remaking Public Education	1
EDUC 308 or EDUC 320	Advanced Educational Foundations: Democracy and Education Ethics in Education	1
EDUC 318 or EDUC 227	Multiculturalism and Education Immigrant Youth in U.S. Society	1
Elective (selected in consultation with student's adviser)		1

Educational Research

The Educational Research concentration is designed for those who have an interest in the empirical exploration of issues central to education. This concentration prepares graduates in quantitative, qualitative, and mixed research methodologies in a range of contexts relevant to education within and outside of school. Graduates with this concentration may be interested in pursuing graduate study in educational psychology, cognitive psychology, or in a specialty area within education, or they may be interested in working for educational research organizations, public policy organizations, or organizations that are generally concerned with the improvement of education.

The Educational Research concentration requires:

EDUC 305	Advanced Educational Psychology	1
EDUC 328	Tests and Measurement	1
EDUC 362 or EDUC 364	Quantitative Research Methods (whichever is not taken in the core courses) Qualitative Research Methods	1
Elective (selected in consultation with the student's adviser)		1

Human Diversity

The Human Diversity concentration is designed for students interested in examining the relationships between U.S. demographic change and learners in schools and in nontraditional educational settings. This study is both historically and sociologically grounded, with significant attention to identity development and interactions with social institutions across a range of human experience. Those pursuing this concentration may be interested in graduate school in social foundations of education, educational policy, or a related subject area, or may be interested in entering work environments that focus on children's issues, children and the media, educational inequality, and educational reform.

The Human Diversity concentration requires:

EDUC 308	Advanced Educational Foundations: Democracy and Education	1
EDUC 318	Multiculturalism and Education	1
EDUC 290 or EDUC 322	Gender Issues in Education Psychology of the Exceptional Child	1
Elective (selected in consultation with the student's adviser)		1

Learning & Development across the Lifespan

This concentration is designed for students who have an interest in examining the ways in which individuals change over the course of the lifespan. Attention is focused on implications for teaching and learning, taking into account cognitive, psychosocial, and physical changes that occur over time. Students also gain exposure to a variety of theoretical orientations toward teaching and learning, including cognitive, behavioral, social, constructivist,

and humanistic perspectives. Graduates with this concentration may be interested in working within educational and social service organizations that target the needs of specific age groups or pursuing graduate education in corresponding areas of specialization.

The Learning & Development Across the Lifespan concentration requires:

EDUC 323	Education of Young Children	1
EDUC 334	Later Childhood and Adolescence	1
EDUC 351	Learning and Development in Postsecondary Education	1
Elective (selected in consultation with the student's adviser)		1

Support Services for Children & Adolescents

The Support Services concentration is designed for those who seek to foster the academic, emotional, and behavioral development of children and adolescents. Emphasis is on theoretical knowledge and practical applications of this knowledge. Those pursuing this concentration will develop intervention skills, such as counseling, consultation, applied behavior analysis, and collaboration. Graduates may be interested in entering work environments such as behavioral health or correctional facilities, social service agencies, and school support services. This concentration also prepares students to enter graduate school in the fields of school psychology, applied behavior analysis, and school counseling.

The Support Services concentration requires:

EDUC 312	Counseling Techniques	1
EDUC 335	Child & Adolescent Development	1
EDUC 347	Family, School, and Community Partnerships	1
Elective chosen in consultation with adviser		1

Bachelor of Science in Education

The Bachelor of Science with a major in early childhood education (Pre-K-grade 4) is designed for students who have clearly defined professional interests in the field of education and who desire to pursue a career in early childhood education, with certification in grades pre-K-4. The degree requires:

EDUC 101	Social Foundation of Education	1
EDUC 201	Educational Psychology	1
EDUC 230	Foundations of Classroom Assessment	1
EDUC 235	Integrated Arts in Learning	1
EDUC 323	Education of Young Children	1
EDUC 341	Early Literacy	1
EDUC 342	Differentiation and Diversity in Education	1
EDUC 343	Culture and Community	1
EDUC 344	Science as Inquiry	1
EDUC 346	Literacy Across Contexts	1
EDUC 347	Family, School, and Community Partnerships	1
EDUC 349	Student Teaching: Elementary	3
EDUC 449	Professional Seminar in Elementary Education	1

Students develop competency in speaking, writing, and information literacy through small group and individual presentations, research projects, debates, and the creation and presentation of unit and lesson plans within required courses. Candidates' Culminating Experience, the 12-week student teaching semester (EDUC 349 Student Teaching: Elementary and EDUC 449 Professional Seminar in Elementary Education), includes extensive unit research and lesson planning, implementation, and presentation, along with the completion of written assignments pertinent to their experience. In addition, students develop and present electronic program portfolios, further demonstrating their technological expertise.

Additional Certification Requirements

Students seeking certification in early childhood education (Pre-K-4) are also required to take the following courses:

MATH 203	Introduction to Mathematical Thought	1
MATH 204	Elementary Geometry and Statistics	1
ENLS 218 or ENLS 220	Studies in Children's Literature Young Adult Fiction	1

PSYC 207	Developmental Psychology	1
Additional requirements ³		

² These are preferred courses to fulfill English literature requirement.

³ Other certification requirements are listed on the education department website (bucknell.edu/education). Requirements may change as mandated by the legislature of the Commonwealth of Pennsylvania.

Secondary Education and Teaching Certification

The following list shows the secondary and K-12 certifications offered by the department. Students seeking these certifications also must complete the requirements for the Bachelor of Science or Bachelor of Arts in the discipline listed after the certification area.

Certification Area – Required Major

- Art (K-12) – Art
- Biology (7-12) – Biology
- Chemistry (7-12) - Chemistry
- English (7-12) – English
- Foreign Language (K-12)
- French – French
- Spanish – Spanish
- General Science (7-12)⁴
- Mathematics (7-12) – Mathematics
- Music (K-12) – Music
- Physics (7-12) – Physics
- Social Studies (7-12) – Anthropology, Economics, Geography, History, Political Science, Psychology, or Sociology

⁴ Requires primary certification in one of the following areas: Biology, Chemistry, or Physics

Required education courses for secondary and K-12 teaching certification include:

EDUC 101	Social Foundation of Education	1
EDUC 201	Educational Psychology	1
EDUC 230	Foundations of Classroom Assessment	1
EDUC 240	Literacy and Learning in the Diverse Classroom	1
EDUC 334 or EDUC 335	Later Childhood and Adolescence Child & Adolescent Development	1
EDUC 339	Inclusive Practices	1
Methods course in content area		1
EDUC 359 & EDUC 459	Student Teaching: Secondary and Professional Seminar in Secondary Education ⁵	4

⁵ Courses are included in semester of student teaching requirement. Courses can be taken only if the student demonstrates that all requirements leading to a recommendation for certification have been or soon will be completed. Students who cannot or choose not to take courses should complete the B.A. or B.S. in the content area or consult with the chair of the education department to select appropriate courses to complete a B.A. in education.

Specific requirements may change as mandated by the legislature of the Commonwealth of Pennsylvania. Lists of courses acceptable for meeting specific requirements are available at the departmental office and website.

ESL Program Specialist

Students completing teaching certification programs in elementary education, early childhood education, English, math, or world language can obtain an additional certification as an ESL Program Specialist. A list of required courses can be found on the department website. Sixty hours of field experience are required for this additional certification.

General Requirements for Teaching Certification

The department of education provides teacher preparation programs which lead to certification in the Commonwealth of Pennsylvania in early childhood education, and selected content areas in secondary education. Students can prepare to become certified teachers by enrolling in a Bachelor of Science in education degree program or by taking a Bachelor of Arts or Bachelor of Science degree in the content area in which they plan to teach. Independent of the degree program into which a student is admitted to the University or the area in which a student may wish to teach, a student

also must be formally admitted to the Pre-Certification, Initial Preparation Program (Pre-CIP). Admission to Pre-CIP can occur after the student has completed two courses in mathematics⁶, one course in British or American literature and one in composition⁶, 16 Bucknell University courses or their equivalent, and achieved for the three preceding semesters an overall grade point average of 3.0 (appeals to this requirement should be made to the chair of the department of education). Candidates must also pass the PAPA (Pre-service Academic Performance Assessment) tests in reading, writing, and math. In lieu of the PAPA tests, candidates may submit proof of earning superior scores on either the Scholastic Achievement Test (SAT) or American College Test (ACT) Plus Writing. See department website for scores. Application to Pre-CIP is normally made when the students begin considering a career in the field of education. Students are notified of their acceptance or rejection in the teacher preparation program at the end of their sophomore year.

The Commonwealth of Pennsylvania generally requires an overall grade point average of 3.0 upon completion of the program prior to recommendation for certification to teach. Specific requirements leading to a recommendation in each teaching area are available at the education department website. It is the responsibility of the student to examine these programs in consultation with a member of the education department. Although members of the department will advise students concerning course selection, the student is responsible for choosing those courses and experiences that meet certification program requirements.

In addition to completing an approved program and successfully demonstrating the prescribed role competencies, the prospective teacher must be a “person of good moral character” who “possesses those personal qualities and professional knowledge and skills which warrant issuance of the requested certificate.” It is the student’s responsibility to satisfy these criteria. Students should note that prior to placement in student teaching or any other field experience, they will be required to submit results of a child abuse clearance, criminal background check and fingerprinting pursuant to requirements of the Pennsylvania Department of Education. Results must indicate that there are no criminal or child abuse records.

In addition to coursework, students must complete and submit scores from required Praxis or PECT examinations to the department of education at Bucknell. Specific examinations required for each area of certification vary. Although members of the department will advise students concerning examinations, the student is responsible for taking those examinations that meet certification program requirements.

After completing the approved program of courses, the student submits an application for a Pennsylvania teaching certificate through the online Teacher Information Management System (TIMS) not earlier than the first day of the month of graduation. Following a review of the student’s program, the student may be recommended for certification by the designated officer at Bucknell. As noted above, the student must pass all the competency tests required by the Commonwealth of Pennsylvania for the desired certificate.

Students who desire certification in states other than Pennsylvania must understand that teacher certification is governed by state law and that each state has different requirements. Obtaining a Pennsylvania teaching certificate, by completing an approved program and meeting all other requirements, does not ensure that students will be certified in another state. Although members of the Bucknell education department will assist students in obtaining information concerning certification in other states, as well as Pennsylvania, it is the student’s responsibility to obtain current information and to meet all the certification requirements of any state.

⁶ Exceptions to these requirements will be posted on the education department website: bucknell.edu/education

Student Teaching

The education department is responsible for the professional preparation of future teachers. To ensure that future professionals are competent, the privilege of taking the course in student teaching is restricted to students whose cumulative grade point average through the junior year is 3.0 or better.

Student Teaching Courses

Select one of the following:

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EDUC 349 & EDUC 449	Student Teaching: Elementary and Professional Seminar in Elementary Education
EDUC 359 & EDUC 459	Student Teaching: Secondary and Professional Seminar in Secondary Education

Additional requirements for all student teachers are good health, character, personality, and acceptable spoken and written English. Placement in student teaching is contingent upon acceptance of the student by a cooperating teacher in an elementary or secondary school that has been approved by the Bucknell education department. Students are responsible for obtaining transportation to their placement.

All students who are interested in student teaching must apply to the Pre-CIP program no later than the first semester of the junior year.

Minor in Education

The **minor** in Education consists of five courses chosen from among the department offerings. The student must take either EDUC 101 Social Foundation of Education or EDUC 201 Educational Psychology and is strongly encouraged to choose four additional courses within a particular area of specialization. Such areas of specialization include college student personnel, contemporary landscapes of education, educational research, human

diversity, learning and development across the lifespan, and support services for children and adolescents. Recommended clusters of courses for particular areas of specialization are available on the department webpage.

Education Departmental Goals

(Note: Numbers in parentheses reflect related Educational Goals of Bucknell University.)

Informed by a Liberal Arts perspective, students will:

1. Analyze educational policy and practice. Develop reasoning processes to connect theory and practice.
2. Engage in professional and ethical interactions with others.
3. Apply theory, question and research to promote learning and healthy development for all children and adolescents.
4. Perceive themselves as life-long learners and potential leaders who are informed advocates for children and adolescents in diverse community and educational settings.
5. Use ongoing self-reflection to explore one's personal and professional identity in relation to educational issues.

Majors in Teaching Certification Programs (B.S. Early Childhood Education, Pre-K-4 and Secondary Certification Programs) will be able to:

1. Understand how children learn and develop. (1, 2, 4, 6, 7, 8)
2. Understand the central concepts, tools of inquiry, and structures of the discipline(s) to be taught. (1, 2, 4, 6, 7, 8)
3. Understand how students differ in their approaches to learning. (1, 4)
4. Understand standards for integrity, ethical behavior, and professional behavior. (5)
5. Create learning opportunities and experiences that support students' intellectual, social, and personal development. (1, 2, 4, 7)
6. Use formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner. (4)
7. Use individual and group motivational strategies to create learning environments that encourage positive social interaction, active engagement in learning and self-motivation. (1, 2, 4)
8. Create and implement instructional opportunities that are adapted to diverse learners. (1, 2, 3, 4, 6, 7)
9. Behave in a professional manner characterized by collaboration and support for school and classroom policies. (7)
10. Value and cultivate relationships with school colleagues, parents, and agencies in the larger community to support students' learning and well-being. (3, 4, 5, 7)
11. Value the importance of being reflective practitioners who continually evaluate the effects of their choices and actions on others, including students, parents, and other professionals in the learning community. (5, 8)
12. Avail themselves of opportunities to grow professionally. (8)

Majors in the B.A. Program will be able to:

1. Describe the process and structure of educational organizations. (3, 6)
2. Understand how humans learn and develop. (1, 4, 5)
3. Understand the core concepts and tools of inquiry for evaluating and producing educational research. (2)
4. Become familiar with diverse applications of educational theory. (1, 2, 3, 4, 5, 6, 7)
5. Demonstrate capacity for self-reflection and ethical reasoning. (7)

Courses

EDUC 101. Social Foundation of Education. 1 Credit.

Offered Both Fall and Spring; Lecture hours:3

Historical, economic, philosophical, and social foundations of education, and their implications for present-day education in America. Provides a background of information for the prospective teacher and citizen. Not open to seniors.

EDUC 105. Education for Peace and Justice. 1 Credit.

Offered Occasionally; Lecture hours:3

This course is an interdisciplinary examination into the meaning, lived experience and learning necessary for peace and justice.

EDUC 110. Education and the Human Spirit. 1 Credit.

Offered Summer Session Only; Lecture hours:6

This course explores the role of spirituality within education. There is a strong focus on theory and practice in relationship to personal experience. Prerequisite: permission of the instructor.

EDUC 1NT. Education Non-traditional Study. 1 Credit.

Offered Fall, Spring, Summer; Lecture hours:Varies,Other:3

Non-traditional study in education.

EDUC 201. Educational Psychology. 1 Credit.**Offered Both Fall and Spring; Lecture hours:3**

Role of psychological concepts in educational practices. Nature, sources of individual differences in development and readiness. Learning theory, motivation, and emotion in learning. Issues in identifying and supporting the learning of all students. Measurement and evaluation of learning.

EDUC 227. Immigrant Youth in U.S. Society. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

This course examines the varied trajectories in contemporary immigrant youth adaptations across social contexts, including schools, families, peer groups and work. Crosslisted as EDUC 627.

EDUC 230. Foundations of Classroom Assessment. 1 Credit.**Offered Spring Semester Only; Lecture hours:3**

Use of observation, documentation, and assessment to develop instructional practices that support learning of all children. Includes assessment across environments and for different purposes. Prerequisite: EDUC 201 and junior status or permission of the instructor.

EDUC 232. Remaking Public Education. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

Examines the way advocates, entrepreneurs, and philanthropists are changing public education (and society) through innovations like charter schools, school vouchers, cyber schools, and home schooling.

EDUC 235. Integrated Arts in Learning. 1 Credit.**Offered Spring Semester Only; Lecture hours:3**

This course invites students to examine the role and possibility of the arts within education. Class time will include discussion, experiential activities, and time for contemplation as students develop a holistic understanding of arts-informed education while addressing essential questions about the nature and purpose of education.

EDUC 240. Literacy and Learning in the Diverse Classroom. 1 Credit.**Offered Spring Semester Only; Lecture hours:3**

This course examines how diverse adolescents engage in literacy across content areas, developing abilities to decode, interpret, and use sign systems to gain access to secondary school content knowledge. Other topics include classroom management, curriculum integration and curriculum planning. Required fieldwork. Prerequisites: EDUC 101 and EDUC 201. Crosslisted as EDUC 640.

EDUC 290. Gender Issues in Education. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

An examination of how gender affects the teaching-learning process with an emphasis on theory, curriculum, pedagogy, and assessment. Crosslisted as WMST 290 and EDUC 690.

EDUC 2NT. Education Non-traditional Study. 1 Credit.**Offered Fall, Spring, Summer; Lecture hours:Varies,Other:3**

Non-traditional study in education. Prerequisite: permission of the instructor.

EDUC 305. Advanced Educational Psychology. 1 Credit.**Offered Occasionally; Lecture hours:3**

Both the theories and practical applications of cognitive psychology and development are emphasized. How theories connect to the field of cognitive neuroscience also is addressed. Prerequisites: EDUC 201 and permission of the instructor. Crosslisted as EDUC 605.

EDUC 308. Advanced Educational Foundations: Democracy and Education. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

This course employs a multidisciplinary approach to explore the relationship between education and democracy in "free" societies such as the United States. Students will critically examine the American educational system and its contemporary problems through the lenses of history, philosophy, sociology, and anthropology. Prerequisites: EDUC 101. Crosslisted as EDUC 608.

EDUC 312. Counseling Techniques. 1 Credit.**Offered Fall Semester Only; Lecture hours:3,Other:4**

This course provides an introduction to counseling theory and basic micro-skills of counseling. Students will practice basic techniques of therapeutic interviewing. Crosslisted as EDUC 612.

EDUC 315. Senior Thesis. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

Senior thesis. Prerequisites: permission of the instructor and department.

EDUC 317. Problems in Education. .25-1 Credits.**Offered Either Fall or Spring; Lecture hours:Varies; Repeatable**

Research on a problem not involved in a student thesis. Upperclass students. Prerequisite: permission of the instructor. Crosslisted as EDUC 617.

EDUC 318. Multiculturalism and Education. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

This course combines social science and educational research with narrative accounts to explore the historical, philosophical, sociological, and political foundations of the multicultural movement in American education. The course will examine and critique contemporary issues such as the educational experiences of minority groups, inclusive pedagogy, and bilingual education. Crosslisted as EDUC 618.

EDUC 319. Group Processes. 1 Credit.

Lecture hours:3

This course presents basic dynamics, theoretical components, and developmental aspects of group processes with clients. Students will participate in a group exercises as members and leaders. Crosslisted as EDUC 619.

EDUC 320. Ethics in Education. 1 Credit.

Offered Either Fall or Spring; Lecture hours:3

Application of traditional and contemporary ethical theories to current dilemmas in teaching, research, counseling, administration, and educational policy.

EDUC 322. Psychology of the Exceptional Child. 1 Credit.

Offered Either Fall or Spring; Lecture hours:3

Understanding the psychology of the exceptional child from childhood through adolescence. Focused involvement in building an understanding of the diverse ways cognitive disabilities are manifested in children and adolescents with an emphasis on prevention, intervention and remediation. Optional fieldwork. Crosslisted as EDUC 622.

EDUC 323. Education of Young Children. 1 Credit.

Offered Fall Semester Only; Lecture hours:3,Other:4

A conceptual-development overview of the social, emotional, cognitive, and physical characteristics of the early childhood years (to age 9) stressing extrapolation from developmental theory to educational practice for teachers and parents who function as the earliest educators. Prerequisites: EDUC 101 and EDUC 201. Crosslisted as EDUC 623.

EDUC 325. Career Development. 1 Credit.

Offered Summer Session Only; Lecture hours:6

An examination of career decision making and career choices within the context of cognitive, social, emotional, and physical development, with emphasis on both theory and practice. Crosslisted as EDUC 625.

EDUC 328. Tests and Measurement. 1 Credit.

Offered Either Fall or Spring; Lecture hours:3

Introduction to the fundamental concepts of measurement and testing theory with emphasis on the application of those concepts in a variety of educational, psychological, and employment settings. Crosslisted as EDUC 628.

EDUC 334. Later Childhood and Adolescence. 1 Credit.

Offered Either Fall or Spring; Lecture hours:3

Uses theory, case studies, and field experience to illustrate early and later adolescent development. Required field work. Not open to students who have taken EDUC 335 or EDUC 635.

EDUC 335. Child & Adolescent Development. 1 Credit.

Offered Either Fall or Spring; Lecture hours:3

Using textbooks, films, media and popular children's and young adult literature, this course examines all aspects of development of school-age students in grades K-12. Requires field work. Not open to students who have taken EDUC 334 or EDUC 634 or EDUC 635.

EDUC 339. Inclusive Practices. 1 Credit.

Offered Fall Semester Only; Lecture hours:3,Other:4

Students will explore the unique instructional needs of L2 learners and students with disabilities and learn how to modify and adjust content, process, and product to enhance their development in inclusive classrooms. Required fieldwork.

EDUC 341. Early Literacy. 1 Credit.

Offered Spring Semester Only; Lecture hours:3,Other:4

A study of the strategies and techniques involved in teaching children to read and to write (Pre-K-4 level). Contemporary theories of reading behavior. Required field work. Prerequisites: EDUC 101 and EDUC 201. Crosslisted as EDUC 641.

EDUC 342. Differentiation and Diversity in Education. 1 Credit.

Offered Spring Semester Only; Lecture hours:3,Other:4

Differential instruction and cultural awareness to foster the learning of all students in inclusive classrooms. Adaptations for reading, writing, spelling, and mathematics included. Required field work. Crosslisted as EDUC 642.

EDUC 343. Culture and Community. 1 Credit.

Offered Spring Semester Only; Lecture hours:3

Consideration of special problems arising in teaching social studies in elementary and secondary schools. Influences determining course content, including state and national standards. Prerequisite: junior status or permission of the instructor. Crosslisted as EDUC 643.

EDUC 344. Science as Inquiry. 1 Credit.

Offered Fall Semester Only; Lecture hours:3,Other:4

This course reflects best practices for the teaching of science as inquiry outlined by the National Science Education Standards and the PA State Standards. This course provides instructional methods and curricular materials appropriate for teaching science concepts, processes, and skills to young children. Prerequisites: EDUC 101 and EDUC 201. Crosslisted as EDUC 644.

EDUC 346. Literacy Across Contexts. 1 Credit.**Offered Spring Semester Only; Lecture hours:3,Other:4**

This course will explore principles of creating a developmentally appropriate elementary learning environment. Emphasis is placed on writing as process, designing literacy instruction and using approaches to management appropriate to learners of various levels of cognitive, emotional, and social development. Prerequisite: Junior status or permission of instructor. Crosslisted as EDUC 646.

EDUC 347. Family, School, and Community Partnerships. 1 Credit.**Offered Spring Semester Only; Lecture hours:3**

Students will explore important factors and effective strategies in creating and sustaining respectful, reciprocal, supportive and empowering relationships with families to enhance children's development and learning. Prerequisite: junior or senior status or permission of the instructor. Field experience and clearances are required.

EDUC 349. Student Teaching: Elementary. 3 Credits.**Offered Fall Semester Only; Lecture hours:Varies,Other:35**

Supervised practice in the design and implementation of instruction in elementary school classrooms. Emphasis on professional conduct and use of theory to inform practice. Students must be accepted into the Pre-CIP program, must have enrolled in all certification courses or obtain permission of the instructor. Corequisite: EDUC 449. Crosslisted as EDUC 649.

EDUC 350. Higher Education in the United States. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

Overview of historical and contemporary trends in post-secondary education: systematic examination of selected social, political, economic, and educational forces and problems affecting contemporary higher education. Crosslisted as EDUC 650.

EDUC 351. Learning and Development in Postsecondary Education. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3**

Investigation of contemporary theories pertaining to the processes of learning and development that occur from later adolescence through old age. Crosslisted as EDUC 651.

EDUC 354. Teaching of Art. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3,Other:4**

Principles and practices of teaching art in grades K-12. Interested students should meet with the Chair of the Department of Education no later than March 15 of sophomore year. Prerequisites: EDUC 101, EDUC 201 and EDUC 335. Crosslisted as EDUC 654.

EDUC 355. Teaching of Science in Secondary School. 1 Credit.**Offered Either Fall or Spring; Lecture hours:3,Other:4**

Principles and practices of teaching biology, chemistry, physics, earth and space science, and environmental science in grades 7-12. Prerequisites: EDUC 101, EDUC 201, and EDUC 334 or EDUC 335 (EDUC 335 required for environmental science). Crosslisted as EDUC 655.

EDUC 359. Student Teaching: Secondary. 3 Credits.**Offered Fall Semester Only; Lecture hours:Varies,Other:35**

Supervised practice in the design and implementation of instruction in secondary school classrooms. Emphasis on professional conduct and use of theory to inform practice. Corequisite: EDUC 459. Crosslisted as EDUC 659.

EDUC 362. Quantitative Research Methods. 1 Credit.**Offered Spring or Summer; Lecture hours:3**

This course emphasizes the design of quantitative research and the development of skills in analyzing and interpreting data. Quantitative research in education and psychology is critiqued in terms of theory, past research, hypothesis generation, and research design. Data input and analysis involves the use of the statistical software package SPSS. Crosslisted as EDUC 662.

EDUC 364. Qualitative Research Methods. 1 Credit.**Offered Fall Semester Only; Lecture hours:3**

This is an introduction to the foundations of qualitative design in education, including: history, philosophy, nature, types, examples, and the challenges associated with data collection and its interpretation. Crosslisted as EDUC 664.

EDUC 375. Methods of Teaching English as a Second Language. 1 Credit.**Offered Spring Semester Only; Lecture hours:3**

This course focuses on preparing students to teach students for whom English is their second language (ESL). It focuses on three primary areas: instructional materials development for ESL; assessment and support of ESL students; and cultural awareness and sensitivity. Crosslisted as EDUC 675.

EDUC 376. English as a Second Language Internship / Professional Seminar. .5 Credits.**Offered Either Fall or Spring; Lecture hours:Varies,Other:1**

Internship (60 hours) at varying grade levels under the supervision of certified ESL teachers in local schools with weekly professional seminar. ESL Program Specialists only. Prerequisite: permission of the instructor.

EDUC 398. Student Affairs Programs in Higher Education. 1 Credit.**Offered Spring Semester Only; Lecture hours:3**

The study of historical and philosophical foundations of the student affairs profession and the roles and functions of student affairs professionals in contemporary collegiate institutions. Crosslisted as EDUC 698.

EDUC 3NT. Education Non-traditional Study. .5-1 Credits.

Offered Fall, Spring, Summer; Lecture hours:Varies,Other:3

Education non-traditional study course. Prerequisite: permission of the instructor.

EDUC 425. Internship in Education. 1 Credit.

Offered Either Fall or Spring; Lecture hours:Varies,Other:3

Supervised practice in an educational setting including a structured reflection component. This course may be used to fulfill the Culminating Experience course requirement for the B.A. in education.

EDUC 439. Student Teaching in Music. 3 Credits.

Offered Either Fall or Spring; Lecture hours:Varies,Other:35

Student teaching in music. Corequisite: MUSC 335. Prerequisite: permission of the instructor.

EDUC 449. Professional Seminar in Elementary Education. 1 Credit.

Offered Fall Semester Only; Lecture hours:3

Systematic approach to the observation, interpretation, verification, and remediation of problems affecting student learning. Psychological and sociological theory informing teaching practice. Implications of student diversity for adaptation of instruction. Prerequisites: EDUC 342, senior status, and permission of the instructor. Corequisite: EDUC 349.

EDUC 459. Professional Seminar in Secondary Education. 1 Credit.

Offered Fall Semester Only; Lecture hours:3

Systematic approach to the observation, interpretation, verification, and remediation of problems affecting student learning. Psychological and sociological theory informing teaching practice. Implications of student diversity for adaptation of instruction. Prerequisite: permission of the instructor. Corequisite: EDUC 359.

EDUC 484. Local Educational Politics. 1 Credit.

Offered Occasionally; Lecture hours:3

This course introduces students to a variety of philosophical, political, and sociological theories that explain the nature of conflict in the educational arena. Crosslisted as EDUC 669.