



Program of Study: Bachelor of Science in Secondary Education

(Eligible for Credential)

Program Description

The Bachelor of Science in Secondary Education is a degree offered by the College of Education in conjunction with the College of Liberal Arts for students desiring to prepare for a career in teaching in grades 7 - 12. The Secondary Education program is designed to prepare students for careers in middle schools and high schools. Students/applicants are responsible for contacting their state department of education for certification requirements and program approval. The student/applicant should consult the Grand Canyon University Catalog and academic advisor to obtain information regarding current policies and procedures inherent in a teacher credentialing program. Courses are taught by experts in their respective fields who share knowledge and experiences in the areas of educational psychology, reading strategies, teaching methods, assessment, classroom management, and curriculum development. All courses are directly aligned with the Arizona Professional Teacher Standards and the Interstate New Teacher Support and Assessment Consortium Standards. Opportunities are provided to apply concepts, theories, and research throughout the teacher preparation program. Assignments within many of the courses guide students through observational experience practicums, and the final semester of the program includes a full-time, 16 week student teaching component.

Course Number	Course Title	Course Description	Credits
UNV 101	University Success	This course provides positive re-enforcement of successful learning strategies and assistance with adaptation to the academic environment.	3
COM 101	Intro to Human Communication [^]	This course focuses on how people use messages to generate meanings within and across various contexts, cultures, channels, and media. The course readings and discussions seek to increase understanding of relevant communication theories and their application in the practice of effective and ethical human communication in both personal and professional life.	3
ENG 101	Academic Writing	A course in writing academic prose, including various types of essays, arguments, and constructions. A writing intensive course. Prerequisite: UNV 105.	3
PSY 101	General Psychology [^]	A foundation course in the science of behavior. Includes a study of the origin and development of behavior patterns, motivation, emotional behavior sensory functions, perception, intelligent behavior, and adjustment. Simple experiments constitute a basic part of the course.	3
HIS 107	World Civilization Before 1500 [^]	A survey of the major events, personalities, movements, and ideas in world civilization from the prehistoric era to 1500 CE. This course focuses on the key political, intellectual, scientific, social, economic, and cultural changes that occurred in world civilization. Students will gain an understanding of the social forces and trends in social, religious, political, and philosophic thought that laid the foundations of the modern world.	3

ENG 102	Research Writing	A course exploring various types of research writing, with a focus on constructing essays, arguments, and research reports based on primary and secondary sources. A writing-intensive course. Prerequisite: ENG 101.	3
BIO 100	Biology Concepts [^]	A complete overview of the science of biology from a human perspective. Topics include cells, energetics, ecology, inheritance, evolution, embryology, anatomy, and physiology. This course does not apply toward the biology major.	3
BIO 100L	Biology Concepts Lab [^]	The one hour lab for BIO 100. Must be taken concurrently with BIO 101.	1

Students wishing to enter the Mathematics or Business Education content areas should take the following:

MAT 121	College Algebra	A precalculus course on algebraic topics and the properties of basic functions. Prerequisite: MAT 120.	3
---------	-----------------	--	---

Students wishing to enter the English or Social Studies content areas should take the following:

MAT 120	Intermediate Algebra	Topics from basic algebra: linear equations, polynomials, quadratic equations, systems of equations, and introductory conic sections. Prerequisite: MAT 100.	3
---------	----------------------	--	---

Choose one of the following courses:

INT 463	World Religions [^]	A study of the major contemporary religions of the world including both historical background and development, and current beliefs and practice with emphasis on basic religions: Hinduism, Jainism, Buddhism, Sikhism, Taoism, Confucianism, Shinto, Zoroastrianism, Judaism, Islam, and Baha'i.	3
BIB 113	Old Testament History [^]	An introductory and historical survey of the Old Testament. Attention is given to the study of the Bible itself, its institutions, literature, and history of the national life of the Hebrew people from earliest times to close of the Old Testament period	3

Choose one of the following courses:

PHI 101	Introduction to Philosophy [^]	An introduction to the discipline of philosophy through a study of representative philosophic problems.	3
BIB 123	New Testament History [^]	A general historical survey of the New Testament, beginning with the inter-biblical period, with the main emphasis given to the Gospels and Acts.	3

UNV 200	Western Ideas and Aesthetics	An examination of ideas that shaped Western thought, and aesthetics. Students will have opportunities to identify and analyze instances of these ideas literature, film, and art.	4
CHM 101	Introduction to General, Organic and Biochemistry [^]	An introduction to the principles of chemistry; designed for students without a strong background in science. Topics covered include a survey of the chemical and physical properties of elements and compounds, chemical reactions, chemical energetics, acids and bases, and chemical bonding. An introduction to organic and biochemistry emphasizes the relationship between molecular structure and function.	3
CHM 101L	Introduction to General, Organic and Biochemistry Lab [^]	The one hour lab for CHM 101. Must be taken concurrently with CHM 101.	1

[^] Campus students may choose an alternative course from the Grand Experience. See the current Academic Catalog for details.

Total General Education Credits: 39

Introduction to Education:

POS 300	Arizona/Federal Government	A survey of Arizona History and Government, as well as American government. Meets the teacher certification requirement for Arizona Government and American government.	3
---------	----------------------------	---	---

Students will not be allowed to enroll in EDU 303 or their content area until GCU has received a copy of their fingerprint clearance.

EDU 303N	Foundations of Education	Students will study the historical, philosophical, and sociological influences which have shaped American education, the issues faced by educators today, and the challenges of the future which await persons now entering the teaching profession. The course is designed for students who have already committed themselves to a career in education or are exploring a career in education and includes a first phase observation in the K-12 classroom. A Writing-Intensive course. No Fingerprint Clearance necessary.	3
----------	--------------------------	--	---

Choose ONE of the following content areas offered online:

Mathematics Content Area Courses:

MAT 122	College Trigonometry	A study of the trigonometric functions and their properties, as related to the unit circle and the right triangle. The course is designed to help students prepare for calculus and physics. Additional topics will be graphing, proving trigonometric identities, inverse trigonometric functions, polar coordinates, and vectors. Prerequisite: MAT 121 or high school equivalent	3
MAT 270	Analytical Geometry and Calculus I	A study of concepts of limits, differentiation, and integration of algebraic and elementary functions. Prerequisites: MAT 121 and MAT 122, or high school equivalent.	3
MAT 271	Analytical Geometry and Calculus II	A continuation of MAT 270, covering the techniques of integration, solid analytic geometry, and infinite series and sequences. Prerequisite: MAT 270 or equivalent.	3
MAT 272	Analytical Geometry and Calculus III	A study of vector analysis, partial differentiation and multiple integration. Prerequisite: MAT 271 or equivalent	3
MAT 300	Introduction to Mathematical Thought	An introduction to the basic structures of mathematical thought including logic and proofs, set theory, relations and functions, selected topics from modern algebra, and the real number system. Emphasis is on the student's ability to read, write about, and discuss mathematical ideas. A Writing-Intensive course. Prerequisite: MAT 271.	3
MAT 310	College Geometry	A course in the technique of construction and the procedure of proofs of common geometric figures, particularly adapted to the needs of future teachers of high school mathematics. A brief introduction of non-Euclidean Geometry is also included.	3
MAT 342	Linear Algebra	An introductory study of finite dimensional vector spaces, linear transformations, matrices, row reduction and determinants, vector spaces, linear transformations and similarity, inner product spaces, eigenvectors, diagonalization, and principal axes, singular value decomposition, introduction to proofs and theory. Prerequisite: MAT 271 or instructor's approval.	3
MAT 363	Probability and Statistics	A study of elementary theories of probability, distribution, estimation and testing of statistical hypotheses. Prerequisite: MAT 271.	3
MAT 373	Differential Equations	A study of the methods of solution of ordinary differential equations and their applications including the theoretical development of the methods. Prerequisite: MAT 272.	3

Total Mathematics Content Area Credits: 27

Business Education Content Area:

ACC 211	Financial Accounting	An introduction to the fundamental principles and practices of financial accounting and the construction of financial statements.	3
ACC 212	Managerial Accounting	Continuation of ACC 211. An introduction to the use of managerial accounting data in the decision-making process.	3
BUS 251	Business Statistics	An introduction to the practical application of descriptive and inferential statistics in business. Topics include probability, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression.	3

ECN 211	Microeconomic Principles	A microeconomics introduction covering prices and competition, non-price competition, income distribution, current domestic problems, international trade, and comparative systems. Microeconomics should be taken before Macroeconomics	3
ECN 212	Macroeconomics Principles	A survey of how basic economic concepts, principles and business practices are viewed from a macroeconomic approach. The course includes an overview of the American economy, national production, employment and income. Also included is a study of the monetary and fiscal policy in the United States, the public sector and economic growth. Prerequisite: ECN 211	3
FIN 301	Fundamentals of Business Finance	A study of the finance function within the modern corporation. Topics covered include financial analysis and planning, the valuation of financial assets, capital budgeting, capital structure, and working capital management.	3
MGT 301	Principles of Management	An introductory course that deals with management and the basic management processes and functions. Focuses on real-world management situations concerned with planning, organizing, leading, and controlling, the work of the organization.	3
MKT 301	Principles of Marketing	This course surveys the marketing mix and marketing concept; markets and buyer behavior; product, service and relationship marketing for global competition; creating and keeping customers in an e-commerce world; branding and positioning; distribution strategies, integrated marketing communications, and pricing strategies.	3
SYM 301	Principles of Information Systems	This introductory course covers the fundamental principles of information systems, integrates topics of management, organization, information, technology and the systems approach and emphasizes the planning, design and implementation of information systems to aid decision-making.	3

Total Business Education Content Area Credits: 27

English Content Area Courses:

ENG 200	Analysis of World Literature	A study of some diverse works in world literature. This course is an introduction to all advanced English course offerings. Students will also be introduced to methods of literary criticism and analysis. All students who plan to major or minor in English should earn a 3.00 or above in this course before taking any upper division English courses. Prerequisites: ENG 101 and ENG 102, or ENG 103.	3
ENG 201	Intermediate Grammar	A review of basic English syntax, form, and mechanics. The course also introduces principles of grammar and linguistics. Prerequisites: Grade of 2.00 or higher in ENG 101 and ENG 102, or ENG 103.	3
ENG 221	English Literature I	A survey of English Literature from the Old English Period through the Enlightenment. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).	3
ENG 301	Advanced Composition	A course for students who wish to develop their skills in academic and nonfiction writing. A Writing-Intensive course. Prerequisite: Grade of 2.00 or above in ENG 101 and ENG 102, or ENG 103.	3
ENG 341	American Literature I	A study of outstanding authors, their works, and the literary movements from the Colonial Age to Romanticism (1850). Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors).	3
ENG 413	The Novel	A study in the development of the novel which focuses primarily on the reading and discussion of 19th and 20th century British and American works.	3
ENG 421	Shakespeare	A study of major Shakespearean comedies and tragedies and of Shakespeare's development as a dramatist. Prerequisite: ENG 221	3
ENG 222	English Literature II	Continuation of ENG 221 covering the Romantic period through the Modern period. Prerequisites: ENG 101 and ENG 102, or ENG 103 (and ENG 200 for English majors)	3
ENG 342	American Literature II	A survey of Realism, Naturalism, Modernism, and Post-Modernism in American fiction, drama, and poetry of the 19th and 20th centuries. Prerequisites: ENG 101 and ENG 102, or ENG 103, (and ENG 200 for English majors).	3

Total English Content Area Credits: 27

Social Studies Content Area Courses:

ECN 211	Microeconomic Principles	An introduction to the basic micro economic concepts of supply and demand, consumer choice, elasticity of demand, costs of production, market structures, and the social costs of economic activity. Prerequisite: MAT 120 or equivalent. Micro Economics is a prerequisite for Macro Economics.	3
ECN 212	Macroeconomic Principles	An introduction to basic macro economic concepts including measures of national output, national income accounting, unemployment, inflation, money and banking, and fiscal and monetary policy. Prerequisite: ECN 211 or equivalent.	3
GEO 121	World Geography	A study of the physical environment and of the relationship of humanity to each of the major geographic areas of the world.	3
HIS 103	Early American History	A study of the history of the United States from pre European contact through the post Civil War reconstruction period which ended in 1877.	3
HIS 104	Recent American History	A study of the history of the United States from 1877 through the beginning of the twenty-first century.	3
HIS 108	World History after 1500	A survey of the major events, personalities, movements, and ideas in world civilization after 1500 CE. This course focuses on the key political, intellectual, scientific, social, economic, and cultural changes that occurred in world civilization. Students will gain an understanding of the social forces and trends in social, religious, political, and philosophic thought that laid the foundations of the modern world.	3
HIS 317	Studies in the Non-Western World	A study of the non-western world. Geographic areas studied will vary.	3
HIS 333	Early Modern Europe	A study of changing European institutions in the age of the Renaissance. The rise and various manifestations of humanism; the religious and political revolt against Rome; the Catholic/Counter Reformations; the rise of nationalism and capitalism.	3
HIS 343	Colonial and Revolutionary America	This course examines the political, economic, social, and cultural history of the American colonies from initial contact to the Revolutionary War.	3
POS 100	Introduction to Political Science	Reflection and analysis of basic questions: What is politics? How do institutions of our body politic affect the individual? How does the individual impact the "Goliath" that is government? More theoretical than Federal Government, and more practical than Political Thought.	3
POS 344	Political Thought	Consideration of major political thinkers and thoughts from classical to modern times, gleaned from primary and secondary sources. The student will explore and critique belief systems such as socialism and libertarianism, and specific concepts such as freedom, rights, democracy, and communitarianism. Prerequisite: POS 100.	3
POS 417	Constitutional History of the United States	A study of the origin, development, interpretations, and amendments to the United States Constitution. Special emphasis is given to the interpretation of the Constitution by the courts.	3

Total Social Studies Teaching Core Credits: 36

Secondary Education Core Courses:

EDU 313N	Educational Psychology	This course provides a thematically arranged study of the theories and principles of psychology that have influenced instructional practices. Behavioral and cognitive approaches to learning, motivation, and instruction are explored. Prerequisite: Fingerprint Clearance.	3
EDU 363N	Instructional Technology	Emphasis is given to the selection, separation, evaluation, and utilization of various simple media elements as well as computer networking, multimedia, interactive video, and the Internet. Prerequisite: Fingerprint Clearance.	3
SPE 325N	Educating Learners with Diverse Needs	This course is a survey of the unique learning needs of exceptional students. Special focus will be given to the referral process, appropriate instructional modifications and accommodations for exceptional students, and IDEA law. A Writing-Intensive course. Practicum hours - 15. Prerequisite: Fingerprint Clearance.	3

ESL 423N	SEI English Language Teaching: Foundations and Methodologies	Through this course the historical, legal, theoretical, and sociological foundations of programs of instruction for non-English language background students are presented. The study of models, prototypes, and methodologies for ESL instruction is included. Practicum hours - 10. Prerequisites: Fingerprint Clearance.	3
ESL 433N	Advanced Methodologies of Structured English Instruction	In this course students continue to examine the fundamentals of the legal, historical, and educational foundations of Structured English Instruction and other instructional programs for English Language Learners. Theoretical principles of language acquisition and the role of culture in learning are examined. Methods of assessment are identified and analyzed. Students will identify strategies to promote English language development and improve student achievement. They will plan, deliver, and evaluate instruction for English Language Learners. Practicum hours - 15. Prerequisites: Fingerprint Clearance and ESL 423N.	3
EDU 430N	Classroom Management	Designed to allow the prospective teacher the opportunity to learn techniques involved in the successful management of a learning environment. Major emphasis is given to the establishment of a realistic discipline plan to manage student behavior and management techniques and strategies to maximize instructional time, classroom procedures, and physical space.	3
SED 442N	Secondary Methods	This course is designed to help teachers and prospective teachers of young adults find their own teaching styles and recognize the different learning styles of their students in order to make appropriate decisions about all aspects of the teaching act. Emphasis is given to teaching methodology that encourages problem-solving, active participation, and assessment. Practicum hours - 15. Prerequisite: Fingerprint Clearance.	3
SED 443N	Secondary Curriculum Development and Assessment	In this study of secondary school curriculum development, major emphasis is given to planning instructional objectives and lessons, assessing objectives, and developing a model curriculum. Practicum hours - 15. Prerequisites: Fingerprint Clearance and SED 442N; SED 443N and SED 442N may be taken concurrently.	3
SED 452N	Reading and Learning Strategies for Middle & Secondary Schools	This course is designed to assist pre-service and in-service teachers in developing a broad range of reading (to include decoding), teaching, and learning strategies to effectively enhance the learning of middle and secondary school students. A major emphasis is given to utilization of these strategies in the midst of today's socially and culturally diverse classrooms. Practicum hours - 30. Prerequisite: Fingerprint Clearance.	3
SED 420N	Adolescent Literacy	This course is designed to assist teacher candidates in understanding, evaluating and promoting effective pedagogy in adolescent literacy. Emphasis will be on adolescents and fluency, vocabulary skills, literary elements of narrative text, literary elements of expository text, evaluating adolescent literature for readability and motivation, adolescent literature based pedagogy, critical literacy and strategies in promoting critical literacy. Practicum hours - 30. Prerequisites: Fingerprint Clearance, EDU 363N, SPE 325N, ESL 433N, and SED 442N.	3
SED 430N	Critical Issues in Secondary Education	This course will focus on contemporary issues that are hot topics in the field of secondary education. Students will explore various educational issues and will self-analyze their own positions as they develop a personal belief system about their role as a secondary education teacher. Practicum hours - 10. Prerequisites: Fingerprint Clearance, EDU 430N, and SED 452N.	3
EDU 460N	Dynamics of Data-Driven Pedagogy	This course will provide participants with a wide range of assessment strategies based on instructional outcomes. Emphasis will be given to alignment of educational objectives to standards and building both formative and summative assessments including rubrics to analyze student learning. Course content is strategically planned to enable participants to make informed educational decisions about student learning based on data. This course focuses on the principles and practices involved in various models of educational assessment, evaluation, and testing. Participants will develop and implement their own authentic assessments and evaluate results. Practicum hours - 15. Prerequisites: Fingerprint Clearance, SED 420N, and SED 430N.	3

Student teaching must be the last course a student takes in the program.

SED 480N	Student Teaching	The semester includes seminars in classroom management, assessment and professional preparation, and curriculum development. The student is assigned to an approved school to serve as a student teacher for a semester under the supervision of an experienced teacher. Prerequisites: Admittance to the College of Education, completion of all secondary education coursework, and senior status.	12
----------	------------------	--	----

Total Secondary Education Core Credits: 54

Total Grand Experience Credits: 39

Total Mathematics, Business Education, or English Content Area Credits: 27

Total Bachelor of Science in Secondary Education (Mathematics, Business Education, or English content areas) Credits: 120

Total Practicum Hours: 140

Total Secondary Education Core Credits: 54

Total Grand Experience Credits: 39

Total Social Studies Content Area Credits: 36

Total Bachelor of Science in Secondary Education (Social Studies content area) Credits: 129

Total Practicum Hours: 140