

APPLIED SCIENCE, BAS

Banner Code: UN-BAS-APLS

Administration

- Janette Kenner Muir, Academic Director and Associate Provost for Academic Initiatives and Services
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The Bachelor of Applied Science (BAS) is an undergraduate liberal arts degree program for adult learners. It is designed primarily to deepen student knowledge in an academic area and foster critical thinking, analytic reasoning, and an ability to synthesize information.

The BAS articulates well with specialized Applied Associate Science (AAS) degree programs, providing a streamlined path to completion of traditional academic requirements leading to the baccalaureate degree. It meets students' professional and personal goals while developing a depth of knowledge and proficiency of skill that translates well to the workplace. However, it is not organized in the same way as a traditional baccalaureate degree. Students planning graduate study should consult with an academic advisor prior to undertaking this degree program.

Admissions & Policies

Admissions

As a prerequisite to enrollment in the BAS, students must be at least 7 years out of high school and have received an Associate of Applied Science (AAS) degree from an accredited two-year institution in an approved area of specialization. The AAS degree will normally fulfill some, but not all, Mason Core requirements. Students who do not meet the 7 year rule may be eligible for an Admissions waiver if additional criteria are met. Details are available at the program's website. (<http://bas.gmu.edu>)

Policies

For policies governing all undergraduate degrees, see AP.5 Undergraduate Policies.

Program Requirements

BAS students must fulfill all requirements for bachelor's degrees including Mason Core requirements, to include 45 credits of upper-level coursework. All Mason Core requirements must be met with either George Mason courses or transferrable equivalents.

The minimum credit requirement for a bachelor's degree is 120 credits; however, while there is some variation between concentration areas, fulfilling all Mason Core requirements and an academic concentration or specialization is likely to require most BAS students to complete at least 63-66 credits at George Mason, which may lead to over 120 credits of coursework in order to receive the degree.

Admitted BAS students will be academically advised by the appropriate BAS Program concentration Advisor to plan their course of study

including completion of the Mason Core, the BAS concentration or specialization, and any remaining requirements. See [t \(http://bas.gmu.edu\)](http://bas.gmu.edu)he website (<http://bas.gmu.edu>) for more information.

The degree plan outlined is based on a student who transfers in a minimum of 30 credits from a completed AAS degree. Some of these credits may count only towards the elective requirement within the BAS degree.

Requirements

Degree Requirements

Total credits: 120-126

Concentrations are intended to provide focus for the BAS curriculum in an area relevant to the student's AAS degree while allowing for the breadth of study associated with a liberal arts baccalaureate degree. Please note that determination of current transfer work for these concentrations may impact course requirements.

In addition to satisfying all Mason Core requirements, students must satisfy the requirements for one of the seven concentrations. Students who do not wish to pursue a concentration may seek permission to plan a course of study in a specialization outside the concentration areas in collaboration with the program advisor.

Concentrations

- Concentration in Applied Conflict Analysis and Resolution (ACAR)
- Concentration in Conservation Studies (CNST)
- Concentration in Cyber Security (CYBS)
- Concentration in Defense Information Systems Technology (DIST)
- Concentration in Health, Wellness and Social Services (HWSS)
- Concentration in Human Development and Family Science (HDFS)
- Concentration in Legal Studies (LGLS)
- Concentration in Technology and Innovation (TCNV)

Concentration in Applied Conflict Analysis and Resolution (ACAR)

This concentration is in collaboration with the School for Conflict Analysis and Resolution.

Code	Title	Credits
Core Requirement		
BAS 300	Building Professional Competencies	3
CONF 101	Conflict and Our World (Mason Core)	3
CONF 301	Research and Inquiry in Conflict Resolution	3
CONF 302	Culture, Identity, and Conflict	3
Select one of the following		
CONF 320	Interpersonal Conflict Analysis and Resolution	3
CONF 330	Community, Group, and Organizational Conflict Analysis and Resolution	3
CONF 340	Global Conflict Analysis and Resolution (Mason Core)	3

Applied Coursework		
CONF 300	Conflict Resolution Techniques and Practice	3
Choose three credits of Skills Coursework from:		3
CONF 325	Dialogue and Difference	
CONF 370	Internship Field Experience	
CONF 385	International Field Experience	
CONF 398	Special Topics in Advanced Techniques and Practices	
CONF 425	Mediating Conflict	
or foreign language completed at the 250 level.		
CONF 490	RS: Integration (Mason Core)	3
Electives		
In consultation with their advisor, students are required to take 18 credits of concentration coursework; at least 9 credits must be from the CONF department. The concentration list can be found in the catalog or on our website.		18
Total Credits		42

Electives (variable)

All BAS students are required to complete a minimum of 120 credit hours of coursework. Students will work with their advisor to determine how to fulfill their outstanding credit hours to ensure they have met all major and university requirements. The number of elective credits that a BAS student may have available will vary by concentration and the amount of applicable transfer coursework the student has been awarded.

Concentration in Conservation Studies (CNST)

This concentration is in collaboration with the School of Integrative Studies and the Smithsonian-Mason School of Conservation. This degree is ideal for students who have earned an AAS in Veterinary Technology. One semester of study at the Smithsonian-Mason School of Conservation is required for completion of degree requirements.

Code	Title	Credits
BAS 300	Building Professional Competencies	3
BAS 490	Introduction to Research Methods	3
BAS 491	Applied Sciences Capstone (Mason Core)	3
Select one of the Smithsonian Semesters listed below:		16
Smithsonian Semester: Conservation, Biodiversity and Society:		
CONS 320	Conservation in Practice	
CONS 401	Conservation Theory	
CONS 402	Applied Conservation	
CONS 410	Human Dimensions in Conservation (Mason Core)	
CONS 490	RS: Integrated Conservation Strategies (Mason Core)	
Smithsonian Semester: Wildlife Ecology and Conservation:		
CONS 400	Conservation Seminar	
CONS 404	Biodiversity Monitoring	
CONS 405	Landscape and Macrosystems Ecology	
CONS 496	Research in Conservation (Mason Core)	
Smithsonian Semester: Endangered Species and Conservation		
CONS 400	Conservation Seminar	

CONS 406	Small Population Management	
CONS 491	RS: Conservation Management Planning (Mason Core)	
CONS 496	Research in Conservation (Mason Core)	
Electives		
Select a minimum of 15 required elective credit hours from the following: ¹		15
INTS 318	Exploring Virginia's Watersheds	
INTS 331	The Nonprofit Sector (Mason Core)	
INTS 334	Environmental Justice (Mason Core)	
INTS 336	Poverty, Wealth and Inequality in the US (Mason Core)	
INTS 338	Animal Rights and Humane Education	
INTS 395	Field-Based Work	
INTS 402	Plants and People - Sustenance, Ceremony, and Sustainability	
INTS 435	Leadership in a Changing Environment	
Total Credits		40

¹ Please note: All BAS students are required to complete a minimum of 120 credit hours of coursework. Students will work with their advisor to determine how to fulfill their outstanding credit hours to ensure they have met all major and university requirements. The number of elective credits that a BAS student may have available will vary by concentration and the amount of applicable transfer coursework the student has been awarded.

Concentration in Cyber Security (CYBS)

This concentration is in collaboration with the Volgenau School of Engineering and is only available to students who graduate with an AAS degree in Cyber Security from the Virginia Community College System.

Code	Title	Credits
Core Requirements		
BAS 300	Building Professional Competencies	3
BAS 490	Introduction to Research Methods	3
BAS 491	Applied Sciences Capstone (Mason Core)	3
Concentration Requirements		
IT 104	Introduction to Computing (Mason Core)	3
IT 105	IT Architecture Fundamentals	3
IT 223	Information Security Fundamentals	3
IT 304	IT in the Global Economy (Mason Core)	3
IT 343	IT Project Management	3
IT 357	Computer Crime, Forensics, and Auditing	3
IT 429	Security Accreditation of Information Systems	3
IT 462	Information Security Principles	3
IT Cyber Security		
Specific courses must be taken at the community college to fulfill this requirement (15 credits met via transfer). Students should consult with their advisor.		15
IT Elective Transfer Courses		
Specific courses must be taken at the community college to fulfill this requirement (15 credits met via transfer). Students should consult with an advisor.		15
Technical Focus		

Select 15 credit hours of required elective IT, MBUS or MIS coursework from the following, in consultation with the advisor.¹

MBUS 301	Managing People and Organizations in a Global Economy	15	
MBUS 302	Managing Information in a Global Economy		
MBUS 303	Marketing in a Global Economy		
MBUS 304	Entrepreneurship: Starting and Managing a New Enterprise		
MBUS 305	Introduction to International Business (Mason Core)		
MBUS 306	Managing Projects and Operations		
MBUS 308	Corporate Finance and Investments in a Global Economy		
MIS 303	Introduction to Business Information Systems (Mason Core)		
Total Credits			78

¹ All BAS students are required to complete a minimum of 120 credit hours of coursework. Students will work with their advisor to determine how to fulfill their outstanding credit hours to ensure they have met all major and university requirements. The number of elective credits that a BAS student may have available will vary by concentration and the amount of applicable transfer coursework the student has been awarded.

Concentration in Defense Information Systems Technology (DIST)

This concentration is in collaboration with the Volgenau School of Engineering and is only available to students who graduate with an AAS degree in Applied Science. All courses in this concentration have sections offered via distance learning.

Code	Title	Credits
BAS 300	Building Professional Competencies	3
BAS 490	Introduction to Research Methods	3
BAS 491	Applied Sciences Capstone (Mason Core)	3
MATH 108	Introductory Calculus with Business Applications (Mason Core)	3
IT 104	Introduction to Computing (Mason Core)	3
IT 105	IT Architecture Fundamentals	3
IT 102	Discrete Structures	3
IT 106	Introduction to IT Problem Solving Using Computer Programming	3
IT 206	Object Oriented Techniques for IT Problem Solving	3
IT 223	Information Security Fundamentals	3
IT 300	Modern Telecommunications	3
IT 341	Data Communications and Network Principles	3

Select one from the following options: 15

Networking and Telecommunications:	
IT 366	Network Security
IT 441	Network Servers and Infrastructures
IT 445	Advanced Networking Principles

IT 455	Wireless Communications and Networking	12-15
IT 499	Special Topics in Information Technology	
Information Systems Security:		
IT 366	Network Security	
IT 441	Network Servers and Infrastructures	
IT 462	Information Security Principles	
IT 466	Network Security and Cryptography	
IT 499	Special Topics in Information Technology	
Electives		
Select 12-15 hours of required 300/400 level elective coursework, in consultation with the advisor as need to complete the required 45 hours		
Total Credits		63-66

Electives

All BAS students are required to complete a minimum of 120 credit hours of coursework. Students will work with their advisor to determine how to fulfill their outstanding credit hours to ensure they have met all major and university requirements. The number of elective credits that a BAS student may have available will vary by concentration and the amount of applicable transfer coursework the student has been awarded.

Concentration in Health, Wellness and Social Services (HWSS)

This concentration is in collaboration with the College of Health and Human Services.

To enroll in this concentration, students must have an AAS in one of the following areas:

- Health Information Management
- Hospitality Management, Nutrition Management specialization
- Nursing
- Physical Therapist Assistant
- Respiratory Therapy

Core Requirements

Code	Title	Credits
BAS 300	Building Professional Competencies	3
SOCW 200	Introduction to Social Work	3
GCH 205	Global Health (Mason Core)	3
NURS 434	Vulnerable Populations	3
BAS 490	Introduction to Research Methods	3
BAS 491	Applied Sciences Capstone (Mason Core)	3
Total Credits		18

Additional Concentration Requirements

To complete the Health, Wellness and Social Services concentration, students must complete one of the two following areas:

- Health Care Administration
- Physical and Mental Health Care Delivery

Health Care Administration

Code	Title	Credits
HAP 301	Health Care Delivery in the United States	3
HAP 360	Introduction to Health Information Systems	3
HAP 442	Introduction to Health Care Politics and Policy	3
SOCW 380	Changing Social Policies and Systems	3
Total Credits		12

Physical and Mental Health Care Delivery

Code	Title	Credits
HAP 301	Health Care Delivery in the United States	3
NUTR 295	Introduction to Nutrition (Mason Core)	3
Select one from the following:		3
GCH 360	Health and Environment	
HHS 432	Healthy Aging	
SOCW 375	Human Behavior and the Family Life Course (Mason Core)	
SOCW 435	Introduction to Gerontology	
SOCW 483	Selected Topics in Social Work Intervention	
Total Credits		9

Electives (variable)

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Concentration in Human Development and Family Science (HDFS)

This concentration is in collaboration with College of Humanities and Social Sciences, School of Integrative Studies, and College of Education and Human Development.

Code	Title	Credits
Core Requirement		
BAS 300	Building Professional Competencies	3
HDFS 200	Individual and Family Development	3
Concentration Requirements		
Adult Development and Aging:		
PSYC 415	Psychological Factors in Aging	3
Family Processes:		
Select one from the following:		3-4
ECED 404	Engaging Families of Diverse Young Learners	
INTS 317	Issues in Family Relationships (Mason Core)	
PSYC 466	Psychology of Intimate Relationships	
SOCI 309	Marriage, Families, and Intimate Life	
Diversity:		
Select one from the following:		3-6

ANTH 315	Socialization Processes: Family, Childhood, Personality in Cross-Cultural Perspective	
ATEP 205	Cultural Competence	
EDUC 203	Disability in American Culture (Mason Core)	
HEAL 350	Interventions for Populations and Communities at Risk	
INTS 320	Construction of Differences: Race, Class, and Gender (Mason Core)	
INTS 336	Poverty, Wealth and Inequality in the US (Mason Core)	
PSYC 379	Applied Cross-Cultural Psychology (Mason Core)	
SOCI 355	Social Inequality (Mason Core)	
Applied Research Methods:		
Select one from the following:		3
PSYC 301	Research Methods in Psychology	
SOCI 303	Methods and Logic of Inquiry	
Human Service Delivery:		
HDFS 300	Individual and Family Services Delivery (fulfills synthesis and writing intensive requirement)	3
Internship:		
HDFS 498	Internship and Analysis in Human Development and Family Science	3
HDFS 499	Advanced Internship Analysis in Human Development and Family Science	3
Total Credits		27-31

Electives (variable)

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Concentration in Legal Studies (LGLS)

This concentration is in collaboration with School of Integrative Studies and College of Humanities and Social Sciences.

Code	Title	Credits
Core Requirements		
BAS 300	Building Professional Competencies	3
BAS 490	Introduction to Research Methods	3
BAS 491	Applied Sciences Capstone (Mason Core)	3
Concentration Requirements		
Required Courses:		
BULE 303	Legal Environment of Business	3
GOVT 301	Public Law and the Judicial Process	3
GOVT 422	Constitutional Interpretation	3
or GOVT 423	Constitutional Law: Civil Rights and Liberties	
PHIL 311	Philosophy of Law	3
Select 15 credits from the following:		15
COMM 475	Journalism Law	

GOVT 307	Legislative Behavior
GOVT 420	American Political Thought
GOVT 446	International Law and Organization
GOVT 452	Administrative Law and Procedures
INTS 304	Social Movements and Community Activism (Mason Core)
INTS 305	Conflict Resolution and Transformation
INTS 362	Social Justice and Human Rights (Mason Core)
SOCI 301	Criminology
SOCI 302	Sociology of Delinquency
SOCI 471	Prevention and Deterrence of Crime
Total Credits	36

Electives (variable)

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Concentration in Technology and Innovation (TCNV)

This concentration is in collaboration with School of Business and Volgenau School of Engineering.

Code	Title	Credits
Core Requirements		
BAS 300	Building Professional Competencies	3
BAS 490	Introduction to Research Methods	3
BAS 491	Applied Sciences Capstone (Mason Core)	3
Concentration Requirements ¹		
IT 105	IT Architecture Fundamentals	3
IT 213	Multimedia and Web Design ²	3
IT 214	Database Fundamentals ²	3
IT 223	Information Security Fundamentals	3
IT 304	IT in the Global Economy (Mason Core)	3
IT 343	IT Project Management	3
MBUS 300	Accounting in a Global Economy	3
MBUS 301	Managing People and Organizations in a Global Economy	3
MBUS 302	Managing Information in a Global Economy	3
MBUS 303	Marketing in a Global Economy	3
MBUS 305	Introduction to International Business (Mason Core)	3
Total Credits		42

¹ All courses for this concentration are available in an online format with most offered as asynchronous delivery.

² The Information Sciences and Technology department offers 1-credit, self-paced, online review courses; ending with an in-class final exam. Students who register for a 1-credit course and successfully pass will receive credit (not a waiver) for the corresponding 3-credit course. Students who are not successful must take the respective course at Mason to meet their degree requirements.

Review courses are available as follows:

- for IT 213 Multimedia and Web Design: IT 193 Review of Multimedia and Web Design
- for IT 214 Database Fundamentals: IT 194 Review of Database Fundamentals

Electives (variable)

All BAS students are required to complete a minimum of 120 credit hours of coursework. Students will work with their advisor to determine how to fulfill their outstanding credit hours to ensure they have met all major and university requirements. The number of elective credits that a BAS student may have available will vary by concentration and the amount of applicable transfer coursework the student has been awarded.