APPLIED SCIENCE, BAS

Banner Code: UN-BAS-APLS

Administration

- Janette Kenner Muir, Academic Director and Associate Provost for Academic Initiatives and Services
- Marcy R. L. Glover, Curriculum Coordinator
- Krystal Dains, Coordinator, Volgenau School of Engineering concentrations
- Jane Walker, Coordinator, School of Conflict Analysis and Resolution concentration
- Hermione Pickett, Adult Learning Advisor

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 the 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.

Concentration in Applied Conflict Analysis and Resolution (ACAR)

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

Core Requirement

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAS 300</td>
<td>Building Professional Competencies</td>
<td>3</td>
</tr>
<tr>
<td>CONF 101</td>
<td>Conflict and Our World (Mason Core)</td>
<td>3</td>
</tr>
<tr>
<td>CONF 301</td>
<td>Research and Inquiry in Conflict Resolution</td>
<td>3</td>
</tr>
<tr>
<td>CONF 302</td>
<td>Culture, Identity, and Conflict</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following</td>
<td>3</td>
</tr>
<tr>
<td>CONF 320</td>
<td>Interpersonal Conflict Analysis and Resolution</td>
<td></td>
</tr>
<tr>
<td>CONF 330</td>
<td>Community, Group, and Organizational Conflict Analysis and Resolution</td>
<td></td>
</tr>
<tr>
<td>CONF 340</td>
<td>Global Conflict Analysis and Resolution</td>
<td></td>
</tr>
</tbody>
</table>

Applied Coursework

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONF 300</td>
<td>Conflict Resolution Techniques and Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose three credits of Skills Coursework from:</td>
<td>3</td>
</tr>
<tr>
<td>CONF 325</td>
<td>Dialogue and Difference</td>
<td></td>
</tr>
<tr>
<td>CONF 370</td>
<td>Internship Field Experience</td>
<td></td>
</tr>
<tr>
<td>CONF 385</td>
<td>International Field Experience</td>
<td></td>
</tr>
<tr>
<td>CONF 398</td>
<td>Special Topics in Advanced Techniques and Practices</td>
<td></td>
</tr>
<tr>
<td>CONF 425</td>
<td>Mediating Conflict</td>
<td></td>
</tr>
</tbody>
</table>
Concentration in Conservation Studies (CNST)

This concentration is in collaboration with New Century College 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.

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 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONF 490</td>
<td>RS: Integration (Mason Core)</td>
<td>3</td>
</tr>
<tr>
<td>INTS 338</td>
<td>Animal Rights and Humane Education</td>
<td></td>
</tr>
<tr>
<td>INTS 395</td>
<td>Field-Based Work</td>
<td></td>
</tr>
<tr>
<td>INTS 402</td>
<td>Plants and People - Sustenance, Ceremony, and Sustainability</td>
<td></td>
</tr>
<tr>
<td>INTS 435</td>
<td>Leadership in a Changing Environment</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 42

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 Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAS 300</td>
<td>Building Professional Competencies</td>
<td>3</td>
</tr>
<tr>
<td>BAS 490</td>
<td>Introduction to Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>BAS 491</td>
<td>Applied Sciences Capstone (Mason Core)</td>
<td>3</td>
</tr>
<tr>
<td>IT 104</td>
<td>Introduction to Computing (Mason Core)</td>
<td>3</td>
</tr>
<tr>
<td>IT 105</td>
<td>IT Architecture Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 223</td>
<td>Information Security Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>IT 304</td>
<td>IT in the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>IT 343</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>IT 357</td>
<td>Computer Crime, Forensics, and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>IT 429</td>
<td>Security Accreditation of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>IT 462</td>
<td>Information Security Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

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.

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.

Electives

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBUS 301</td>
<td>Managing People and Organizations in a Global Economy</td>
<td></td>
</tr>
<tr>
<td>MBUS 302</td>
<td>Managing Information in a Global Economy</td>
<td></td>
</tr>
<tr>
<td>MBUS 303</td>
<td>Marketing in a Global Economy</td>
<td></td>
</tr>
<tr>
<td>MBUS 304</td>
<td>Entrepreneurship: Starting and Managing a New Enterprise</td>
<td></td>
</tr>
<tr>
<td>MBUS 305</td>
<td>Introduction to International Business (Mason Core)</td>
<td></td>
</tr>
<tr>
<td>MBUS 306</td>
<td>Managing Projects and Operations</td>
<td></td>
</tr>
</tbody>
</table>

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.
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.

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

Select one from the following options: 15

Networking and Telecommunications:

IT 366  Network Security I
IT 441  Network Servers and Infrastructures
IT 445  Advanced Networking Principles
IT 455  Wireless Communications and Networking
IT 499  Special Topics in Information Technology

Information Systems Security:

IT 366  Network Security I
IT 441  Network Servers and Infrastructures
IT 462  Information Security Principles
IT 466  Network Security II
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 needed to complete the required 45 hours

Total Credits 63-66

Election

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAS 300</td>
<td>Building Professional Competencies</td>
<td>3</td>
</tr>
<tr>
<td>SOCW 200</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>GCH 205</td>
<td>Global Health (Mason Core)</td>
<td>3</td>
</tr>
<tr>
<td>NURS 434</td>
<td>Vulnerable Populations</td>
<td>3</td>
</tr>
<tr>
<td>BAS 490</td>
<td>Introduction to Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>BAS 491</td>
<td>Applied Sciences Capstone (Mason Core)</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAP 301</td>
<td>Health Care Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>HAP 360</td>
<td>Introduction to Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HAP 442</td>
<td>Introduction to Health Care Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOCW 380</td>
<td>Changing Social Policies and Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 12

Physical and Mental Health Care Delivery

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAP 301</td>
<td>Health Care Delivery in the United States</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 295</td>
<td>Introduction to Nutrition (Mason Core)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one from the following: 3

- GCH 360  Health and Environment
- HHS 432  Healthy Aging
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCW 375</td>
<td>Human Behavior and the Family Life Course (Mason Core)</td>
</tr>
<tr>
<td>SOCW 435</td>
<td>Introduction to Gerontology</td>
</tr>
<tr>
<td>SOCW 483</td>
<td>Selected Approaches to Social Work Intervention</td>
</tr>
</tbody>
</table>

Total Credits: 9

**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 Human Development and Family Science (HDFS)**

This concentration is in collaboration with College of Humanities and Social Sciences, New Century College and College of Education and Human Development.

**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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED 404</td>
<td>Engaging Families of Diverse Young Learners</td>
</tr>
<tr>
<td>INTS 317</td>
<td>Issues in Family Relationships</td>
</tr>
<tr>
<td>PSYC 466</td>
<td>Psychology of Intimate Relationships</td>
</tr>
<tr>
<td>SOCI 309</td>
<td>Marriage, Families, and Intimate Life</td>
</tr>
</tbody>
</table>

**Diversity:**

Select one from the following:  3-6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 315</td>
<td>Socialization Processes: Family, Childhood, Personality in Cross-Cultural Perspective</td>
</tr>
<tr>
<td>ATEP 205</td>
<td>Cultural Competence</td>
</tr>
<tr>
<td>EDUC 203</td>
<td>Disability in American Culture (Mason Core)</td>
</tr>
<tr>
<td>HEAL 350</td>
<td>Interventions for Populations and Communities at Risk</td>
</tr>
<tr>
<td>INTS 320</td>
<td>Construction of Differences: Race, Class, and Gender</td>
</tr>
<tr>
<td>INTS 336</td>
<td>Poverty, Wealth and Inequality in the US</td>
</tr>
<tr>
<td>PSYC 379</td>
<td>Applied Cross-Cultural Psychology (Mason Core)</td>
</tr>
<tr>
<td>SOCI 355</td>
<td>Social Inequality (Mason Core)</td>
</tr>
</tbody>
</table>

**Applied Research Methods:**

Select one from the following:  3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRLS 450</td>
<td>Research Methods</td>
</tr>
<tr>
<td>PSYC 301</td>
<td>Research Methods in Psychology</td>
</tr>
<tr>
<td>SOCI 303</td>
<td>Methods and Logic of Inquiry</td>
</tr>
</tbody>
</table>

**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 New Century College and College of Humanities and Social Sciences.

**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  3

PHIL 311  Philosophy of Law  3

Select 15 credits from the following:  15

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 475</td>
<td>Journalism Law</td>
</tr>
<tr>
<td>GOVT 307</td>
<td>Legislative Behavior</td>
</tr>
<tr>
<td>GOVT 420</td>
<td>American Political Thought</td>
</tr>
<tr>
<td>GOVT 446</td>
<td>International Law and Organization</td>
</tr>
<tr>
<td>GOVT 452</td>
<td>Administrative Law and Procedures</td>
</tr>
<tr>
<td>INTS 304</td>
<td>Social Movements and Community Activism</td>
</tr>
<tr>
<td>INTS 305</td>
<td>Conflict Resolution and Transformation</td>
</tr>
<tr>
<td>INTS 362</td>
<td>Social Justice and Human Rights</td>
</tr>
<tr>
<td>SOCI 301</td>
<td>Criminology</td>
</tr>
<tr>
<td>SOCI 302</td>
<td>Sociology of Delinquency</td>
</tr>
<tr>
<td>SOCI 471</td>
<td>Prevention and Deterrence of Crime</td>
</tr>
</tbody>
</table>

Total Credits: 36

**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 Technology and Innovation (TCNV)
This concentration is in collaboration with School of Business and Volgenau School of Engineering.

### Core Requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAS 300</td>
<td>Building Professional Competencies</td>
<td>3</td>
</tr>
<tr>
<td>BAS 490</td>
<td>Introduction to Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>BAS 491</td>
<td>Applied Sciences Capstone (Mason Core)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Concentration Requirements

1. **IT 105** IT Architecture Fundamentals 3
2. **IT 213** Multimedia and Web Design 3
3. **IT 214** Database Fundamentals 3
4. **IT 223** Information Security Fundamentals 3
5. **IT 304** IT in the Global Economy (Mason Core) 3
6. **IT 343** IT Project Management 3
7. **MBUS 300** Accounting in a Global Economy 3
8. **MBUS 301** Managing People and Organizations in a Global Economy 3
9. **MBUS 302** Managing Information in a Global Economy 3
10. **MBUS 303** Marketing in a Global Economy 3
11. **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 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.