



## *Degree Requirements* *Life Sciences (BS)*

[www.integrative.gmu.edu](http://www.integrative.gmu.edu)

### **Description**

This concentration is geared towards students interested in working in medical and health promotion fields. Courses of study included under the life sciences concentration are: Pre-Medical, Pre-Dental, Pre-Occupational Therapy, Pre-Physician's Assistant, Pre-Pharmacy, and Pre-Physical Therapy. More information about a specific course of study in the life sciences can be obtained by contacting an academic advisor.

### **About Integrative Studies/Philosophy**

The Bachelor of Science degree program in integrative studies is based on intensive, interdisciplinary learning communities coordinated with traditional academic programs. The result is an integrated program of study that emphasizes collaboration, experiential learning, and self-reflection. The degree program requires mastery of eight essential competencies: communication, global understanding, group interaction, aesthetic awareness, critical thinking, civic engagement, digital literacy, and well-being.

### **Learning Communities (24 credits)**

Learning communities are interdisciplinary courses that combine different subjects into a single course that is usually 3 or 6 credits. In learning communities, faculty and students explore various ways to understand a topic. Learning communities are structured to help promote a greater sense of identity with an academic community. Hallmarks of Integrative Studies learning communities are team teaching, collaborative projects, emphasis on writing and critical thinking, and opportunity for independent study. They often include experiential learning, either as an integral part of the class or as an optional add on.

### **Experiential Learning (12 credits)**

Experiential learning includes internships, study abroad, community service learning, course field trips, and other field study opportunities. The learning sites may change each semester and are usually off campus. George Mason provides student liability insurance for the experiential learning internship, but students are responsible for their own transportation and health care. Accident and health insurance is available from George Mason.

No more than 24 credits of experiential learning can count toward a student's total credits for graduation.

## Required Courses

These courses are a *sampling* of what may be required for a life sciences concentration. Course requirements for each course of study can be obtained by speaking with an advisor or by visiting the Integrative Studies degree requirements page at: [ncc.gmu.edu/programs/la-bs-ints-lifs](http://ncc.gmu.edu/programs/la-bs-ints-lifs).

Biology: (8-18 credits): BIOL 103, 124, 125, 213, 246, 313

Chemistry: (0-18 credits): CHEM 103, 104, 211, 212, 313/315, 314/318, 462, 465

Physics (0-8credits): 103, 104, 243/244, 245/246

Mathematics: (3-8 credits): MATH 106, 110, 111, 113, 114 or STAT 250

Psychology (0-9 credits): PSYC 100, 211, 325

Ethics (3 credits): PHIL 151 or PHIL 309\*

## Sample 4-year plan §

First Year				Second Year			
Fall Semester		Spring Semester		Fall Semester		Spring Semester	
*INTS Core	6	*INTS Core	6	BIOL 213	4	BIOL 311	4
*ENGH 101	3	*HIST 125	3	CHEM 211	4	CHEM 212	4
*GGS 101	3	*IT 104	3	*PSYC 100	3	PHIL 151	3
*BIOL 104	4	*MATH 106	3	INTS 3xx/4xx	4	INTS 3xx/4xx	4
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>
Third Year				Fourth Year			
Fall Semester		Spring Semester		Fall Semester		Spring Semester	
CHEM 313/315	5	CHEM 314/318	5	PHYS 243/244	4	PHYS 345/246	4
MATH 110	4	MATH 111	3	INTS 490	3	INTS 490	3
PHIL 309	3	BIOL Elective	3	INTS 3xx/4xx	4	INTS 3xx/4xx	4
INTS 3xx/4xx	4	INTS 3xx/4xx	4	BIOL Elective	4	Elective	3
<b>Total:</b>	<b>16</b>	<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>15</b>	<b>Total:</b>	<b>14</b>

\*these courses also fulfill general education requirements

§This is a Pre-Medical plan. Course numbers will vary depending on student's emphasis within the Life Science concentration

## Advising/Further Information

[ncc.gmu.edu/programs/la-bs-ints-lifs](http://ncc.gmu.edu/programs/la-bs-ints-lifs)

### Integrative Studies

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