BACHELOR OF SCIENCE IN HEALTH SCIENCES WITH A MAJOR IN CLINICAL EMBRYOLOGY AND ASSISTED REPRODUCTIVE TECHNOLOGY

The bachelor of science in health sciences with a major in clinical embryology and assisted reproductive technology program is designed to prepare graduates with the theoretical knowledge and practical skills for positions in assisted reproductive technology laboratories, biotechnology companies, research institutes and hospitals. In addition, program graduates will be eligible to take the embryology and andrology board of certification examination (ELS and ALS) offered by the American Association of Bioanalysis (AAB). The curriculum will also ensure that graduates will be prepared to pursue an advanced degree beyond the baccalaureate if they so choose.

Visit the program website (https://bls.smhs.gwu.edu/programs/bshs-clinical-embryology-and-assisted-reproductive-technology/) for more information.

ADMISSIONS

Admission Deadlines
- Fall: July 15
- Spring: November 15
- Summer: March 15

Standardized test scores
- SAT/ACT optional

Recommendations
- Letter of recommendation from an academic instructor who can strongly attest to your academic ability, and/or an Individual who served in a supervisory capacity for you, and who can strongly attest to your work ethic.

Prior academic records
- Transcripts are required from all colleges and universities attended (including via dual enrollment), whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Transcripts must be forwarded in their original sealed envelopes. Official transcript may also be sent electronically directly from the institution.

Prerequisites
- At least 45 semester hours of college with a minimum cumulative and science GPA of 2.5 from a regionally accredited institution of higher learning. Students applying under a Guaranteed Admission Agreement must have a cumulative GPA of 2.75. All should include the following coursework:
  - English Composition (3 credits)
  - General Biology (lecture and ‘hands-on’ lab) (8 credits)
  - Chemistry (lecture and ‘hands-on’ lab) (8 credits)
  - College Mathematics (algebra, statistics, or higher) (3 credits)

International applicants only
- This hybrid program is not visa eligible. Permanent Residents or those with a valid visa (e.g. work), if eligible, may apply.

Admissions information
- All applicants are required to submit a 250-500 word essay describing your reasons for undertaking study at the George Washington University. Focus on your academic objectives, career goals and related qualifications, including collegiate, professional, and extra-curricular activities relevant to your program of interest. Include any substantial accomplishments not already mentioned on the application form as well as obstacles you have overcome that influenced your desire to pursue this program of study.

Transfer coursework
- Must be earned with a C or better (C- grades and lower do not transfer to GW SMHS).

A résumé or curriculum vitae is required.

Additional requirements
- All students must meet Essential Functions requirements, and successfully meet the criminal background check and drug screen requirements. (https://smhs.gwu.edu/academics/health-sciences/academics/admissions/background-checks-and-drug-screenings/)

Non-traditional credit sources may be considered on a case-by-case basis (i.e. military coursework, credit-by-exam, and non-college based health programs). Information on transfer credit eligibility may be found in the Bulletin under Regulations (see Transfer Credit/Advanced Standing for Undergraduates), including minimum letter grade requirements.
Official transcripts from institutions outside the U.S. must be accompanied by an official transcript evaluation from an accredited independent evaluating agency. Please be sure you request a detailed evaluation that includes all course titles, credit hours, grades, U.S. degree equivalency, grade-point averages (GPA), and date of degree conferral. For a list of acceptable foreign credential evaluation services, please click here (https://www.naces.org/members.php).

Applicants who are not U.S. citizens are required to submit official test scores for either Test of English as a Foreign Language (TOEFL) or Pearson’s Test of English (PTE) Academic or the academic International English Language Testing System (IELTS). The following are the minimum scores for admission consideration: TOEFL: 250 computer-based or 100 Internet-based, PTE: overall score of 68, or IELTS: an overall band score of 7.0, with no individual band score below 6.0.

International applicants who meet the following conditions may be considered for admission without submitting TOEFL, PTE or IELTS or scores:
- They are a citizen of countries where English is the official language (as identified by GW ISO list of Exempt countries) OR;
- They hold at least a bachelor’s degree from a country where English is the official language as well as language of instruction OR;
- They hold at least a bachelor’s degree from an institution accredited by a U.S. regional accrediting agency.

**REQUIREMENTS**

**General Education Requirement**
- 3 credits in English composition
- 8 credits in biology with lab
- 8 credits in general or inorganic chemistry with lab
- 3 credits in college math (algebra, statistics, or higher)
- 3 credits in humanities
- 6 credits in social sciences

**Required for the major**
- **MLS 3000** Clinical Laboratory Mathematics
- **MLS 3001W** Professional Ethics for Medical Laboratory Scientists
- **MLS 3003** Biochemistry for Laboratory Science
- **MLS 4141** Immunology and Serology
- **MLS 4151** Molecular Diagnostics
- **MLS 4251** Molecular Diagnostics Laboratory
- **MLS 4158** Laboratory Management and Operations
- **MLS 4171** Human Genetics
- **CERT 3004** Endocrinology for Health Sciences
- **CERT 3005** Topics in Biomedical Science
- **CERT 4010** Clinical Human Embryology
- **CERT 4011** Human Embryology Laboratory
- **CERT 4012** Clinical Human Andrology
- **CERT 4013** Human Andrology Laboratory
- **CERT 4014** Human Reproductive Cryobiology
- **CERT 4015** Human Cryobiology Laboratory

And one course selected from the following:

**Supporting Documents not Submitted Online should be Mailed to:**
Office of Admissions
Health Sciences Programs
The George Washington University
2600 Virginia Avenue
Suite 104
Washington, DC 20037

Alternatively, official electronic transcripts can be sent to hspora@gwu.edu

**Contact for Questions:**
hsphora@gwu.edu – 202-994-0384 (phone) – 202-994-0870 (fax)
9:00am - 5:00pm, Monday through Friday
HSCI 2112W Writing in the Health Sciences
HSCI 4112W Research and Writing in Health Sciences
MLS 2007W Microbes and Society

**Additional school-specific requirements and electives**

Depending on their prior academic record, students complete additional coursework to fulfill school-specific requirements in consultation with their academic advisor. Such courses, as well as appropriate elective selections, are taken from the following list. Alternative electives may be approved by the program director. 

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<tr>
<th>Clinical and laboratory sciences</th>
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<tbody>
<tr>
<td>HSCI 2102 Pathophysiology</td>
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<tr>
<td>HSCI 3501 Human Anatomy and Physiology I</td>
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<td>HSCI 3502 Human Anatomy and Physiology II</td>
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<td>MLS 4170 Introduction to Molecular Biology</td>
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<td>MLS 4172 Molecular Diagnostics Capstone</td>
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<td>MLS 4217 Molecular Techniques</td>
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<td>MLS 4242 Applications of Molecular Testing</td>
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<td>MLS 4252 Applications of Molecular Testing Laboratory</td>
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<td>MLS 4266 Molecular Diagnostics Practicum</td>
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<tr>
<th>Health Data Analytics</th>
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<tr>
<td>HSCI 3117 Principles of Biostatistics for Health Sciences</td>
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<th>Topics in healthcare</th>
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<tr>
<td>COHM 4110 Strategic Communication for Healthcare Professionals</td>
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<th>HSCI 1106 Introduction to Biotechnology for Health Sciences</th>
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<td>HSCI 3114 Management of Health Science Services</td>
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<tr>
<td>HSCI 2105 Current Issues in Bioethics</td>
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<td>HSCI 4106 Introduction to Epidemiology for Health Sciences</td>
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<td>MLS 2005 Plagues, Pandemics, and Epidemics</td>
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**Alternative electives may be selected from any undergraduate MLS, HSCI or CERT course or those approved by the program director. Advanced standing from eligible transfer credit may also be considered.**