



Prepare for Your Future Biomedical Career

The **Biomedical Genetics and Genomics Certificate at Regis University** is a 13-credit program designed for students seeking to enhance credentials in the cutting-edge field of Genetics and Genomics. The certificate program starts in August.

Program Highlights:

- Complete the certificate in 12 months
- Develop expertise in a cutting-edge area of the biomedical sciences and health care
- Accelerated evening and hybrid online courses
- Two courses from the certificate may be applied to the M.S. in Biomedical Sciences degree at Regis University
- Located in Northwest Denver only a few hours from the Rocky Mountains

PRIORITY APPLICATION DEADLINE IS MAY 1. CLASSES START IN AUGUST.

Questions? Contact **Zach Lundquist**, Admissions
Counselor, at **zlundquist@regis.edu** or **303.964.5070**

REGIS UNIVERSITY
LOOK OUTWARD. INQUIRE WITHIN.

BIOMEDICAL GENETICS AND GENOMICS CERTIFICATE

The graduate Certificate in Biomedical Genetics and Genomics can be completed in 8 months. The curriculum is designed to provide students with engaging graduate coursework in a cutting-edge area in biology and health care. New genetic and genomic technologies are revolutionizing the biomedical sciences and will guide much of our future medical treatments.

CERTIFICATE REQUIREMENTS (13 CREDIT HOURS)

▶ **BL 630: Biomedical Genetics and Genomics Seminar - 1 credit**

Reviews program pre-requisite background. Develops student skills in using online genetic and genomic resources and introduces relevant bioethical considerations. Includes career advising.

▶ **BL 614 Biomedical Genetics - 3 credits**

Develops student knowledge of molecular genetics and human genetics. Introduces biomedical ethical controversies with roots in genetics and molecular biology.

▶ **BL 632: Biomedical Genomics - 3 credits**

Develops student knowledge of human, bacterial, and viral genome organization, genome sequencing, comparative genomics, transcriptomics, proteomics, and introductory genomic analysis. Introduces biomedical ethics in the context of genomics. **Prerequisite(s): BL 614**

▶ **BL 634: Cancer Genetics - 3 credits**

Develops student knowledge of the genetics of cancer and student ability to translate rapid advances in genetics and genomics into cancer risk assessment. Introduces biomedical ethical controversies associated with cancer. **Prerequisite(s): BL 614**

▶ **BL 636: Translational Genetics and Genomics - 3 credits**

Develops student knowledge of how molecular and populational understandings of genetics and genomics are translated into clinical diagnostic and treatment applications. Introduces biomedical ethical controversies associated with translational genetics and genomics. **Prerequisite(s): BL 632**

Total Certificate Requirements = 13 credit hours

ADMISSIONS REQUIREMENTS

- ▶ Completed application and \$50 application fee
- ▶ A baccalaureate degree from a regionally accredited college or university, and official transcripts for all college/university coursework
- ▶ Submission of all required application documents
- ▶ Completion of the following pre-requisite collegiate coursework with a grade of C- or higher from a regionally accredited college or university:
 - A year of general or introductory biology for science students with laboratories
 - A year of general and/or inorganic chemistry for science students with laboratories
 - A semester of collegiate mathematics
 - A course in English composition
 - A year of humanities courses (e.g. courses in art history, classics, ethics, history, literature, music history, music theory, philosophy, religious studies, theology)

SEAMLESS PROGRESSION TO MASTER OF SCIENCE IN BIOMEDICAL SCIENCES

Students who are admitted and complete the Genetics and Genomics Certificate must meet the following to meet guaranteed admissions into the Master of Science in Biomedical Science program.

- ▶ Completion of the Genetics & Genomics Certificate with a 3.3 GPA or higher.
- ▶ Earn no lower than a 'B' in any Genetics & Genomics courses (B- and below not accepted)
- ▶ Permission from the Genetics & Genomics program director AND the M.S. in Biomedical Sciences program director.

Two courses in this certificate may apply towards the M.S. in Biomedical Sciences Program.

For more information on our certificate programs, including graduation rates, the median debt of students who completed the programs, and other important information, please visit our website at regis.edu/certificates.

Regis University is regionally accredited by the Higher Learning Commission.

Visit www.regis.edu/GeneticsGenomics to learn more.