Functional Genomics Certificate

Functional Genomics Certificate Program Requirements

8-11 credits

Code	Title	Hours
BIOL 1610 & BIOL 1615	Principles of Biology I (LS) and Principles of Biology I Lab (LAB)	3-5
or BTEC 1010	Fundamentals of Biotechnology	
BTEC 2050	Zebrafish Maintenance & Methodology	2
BTEC 3050	CRISPR/Cas9 Techniques	1
BTEC 4040	Techniques in Functional Genomics	1
BTEC 4050	In Situ Hybridization	1
BTEC 4060	Variant Validation in Zebrafish	1

COMPLETION REQUIREMENTS

1. Complete all coursework with a C- or higher
2. Cumulative GPA of 2.5 or higher

Functional Genomics Certificate Program Learning Outcomes

At the successful completion of this program, students will be able to:

1. Describe the history and different models used for functional genomics.
2. Perform all techniques required for functional validation zebrafish.
3. Successfully report results back to collaborators within hospital and research centers.