

# Functional Genomics Certificate

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## FUNCTIONAL GENOMICS CERTIFICATE REQUIREMENTS

8-11 credits

Code	Title	Hours
BIOL 1610 & BIOL 1615 or BTEC 1010	Principles of Biology I (LS) and Principles of Biology I Lab (LAB) Fundamentals of Biotechnology	3-5
BTEC 3040	Zebrafish Maintenance and Microscopy	1
BTEC 3050	Gene Knockout: RNA Interference & CRISPR	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

### Function Genomics Certificate Program Learning Outcomes

At the successfully 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.