BIOCOMPUTATIONAL ENGINEERING

HOWARD COMMUNITY COLLEGE

# Howard Community College Pathway to Biocomputational Engineering

## ADMISSIONS INFORMATION

Students are encouraged to apply as transfer students from Howard Community College. For best consideration, prospective students should meet the following requirements:

- Successful completion (C- or better) of all prerequisite courses listed in the table below
- Complete **60** transfer credits (or an Associate's Degree)
- Achieve a minimum grade point average (GPA) of **2.5**

| | University of Maryland Course* | Howard Community College | Credits |
|---|---|---|---|
| | **Academic Writing** (ENGL101) | ENGL121 | 3 |
| | **Introduction to Engineering Design** (ENES100) | ENES100 | 3 |
| | **Calculus I** (MATH140) | MATH181 | 4 |
| | **Calculus II** (MATH141) | MATH182 | 4 |
| | **Calculus III** (MATH 241) | MATH240 | 4 |
| | **Differential Equations for Scientists and Engineering** (MATH 246) | MATH260 | 3 |
| | **General Physics: Mechanics and Particle Dynamics** (PHYS161) | PHYS110 | 3 |
| | **General Physics: Vibration, Waves, Heat, Electricity and Magnetism/Lab** (PHYS260/261) | PHYS111 | 4 |
| | **General Chemistry for Engineers/Lab or General Chemistry and Energetics** (CHEM135/136 or CHEM271/272) | CHEM135/135 or CHEM102 | 4 |
| | **Principles of Molecular & Cellular Biology or Biology for Engineers** (BSCI170 or BIOE120) | BIOL141 or BIOL120 | 3 |
| | **Matlab programming course** (BIOE241 or equivalent) | ENES271 | 3 |
| | **UMD General Education requirements or Associate's Degree** | | 22 |
| | **TOTAL TRANSFER CREDITS** | | **60** |

*For more information regarding course equivalencies, please visit: **transfercredit.umd.edu**

**For more information, contact:**

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UNIVERSITY OF MARYLAND