

**The  
Fischell  
Department of  
Bioengineering**

**Undergraduate  
Student Handbook**

*“The finest goal that engineering can achieve is to improve the quality of life for millions of people throughout the world...Bioengineering and biomedical devices are the most direct means to achieve that goal.”*

*Dr. Robert E. Fischell*

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*Please Note: The Undergraduate Student Handbook will be occasionally updated. Please refer to the Fischell Department of Bioengineering website ([www.bioe.umd.edu](http://www.bioe.umd.edu)) to find the current version of the handbook.*

## Introduction

Welcome to the Fischell Department of Bioengineering! We want you to have every opportunity to not only succeed, but to excel in your academic career here at the University of Maryland. With that objective in mind, this program has been carefully designed to educate and instruct its' students in all areas relative to Bioengineering. You will also have the opportunity to explore other areas that interest you through the University's CORE courses and the electives required by the Bioengineering degree. Our curriculum emphasizes the principles of biology, physiology, engineering, and design. In addition to the technical aspects, the curriculum also incorporates ethics, economics, and patent concepts. All of these areas of study create a rich educational experience, one that prepares our graduates for success in the professional world. This handbook is intended to provide you with a ready reference throughout your undergraduate journey in bioengineering. As questions arise, you will find that it contains a wealth of valuable information. You are also encouraged to take it with you to advising appointments, as it provides you with a four year template and a place to track your CORE and elective courses, both of which should be discussed with your advisor each semester. Finally, we want to assure you that the faculty and staff of the Fischell Department of Bioengineering are committed to your success and are here to guide you throughout your academic career. Please feel free to come to us with any question, concern, or need you may have. Please also visit our departmental website for updates, faculty profiles, sample technical electives, and more: [www.bioe.umd.edu](http://www.bioe.umd.edu). *Best wishes for the next four years!*

## Bioengineering at Maryland

Bioengineering is a field rooted in physics, mathematics, chemistry, biology, and life sciences. Each of these areas is applied in a systematic, quantitative, and integrative way to approach problems important in biology, biosystems, medical research, and clinical practice. Bioengineering advances fundamental concepts, creates knowledge from the molecular to organ to system levels, and develops innovative processes for the prevention, diagnosis, and treatment of disease. In short, bioengineering seeks to improve the health and life of humankind on many levels.

Bioengineers specialize in those products and processes made from, used with, or applied to biological organisms. In addition to engineering science and design, bioengineers study cell biology, physiology, bioinformatics, bioimaging, and biomechanics. The synthesis of engineering and biology gives bioengineers unique capabilities in our modern world.

In the first two years, students will take engineering foundation courses in biology, chemistry, physics, and math. In the third and fourth years, the focus will shift to the areas of biomedical imaging, biomechanics, physiological systems, and transport. Capstone I and II, taken in year four, will feature guest speakers and allow students the opportunity to engage in discussion on current issues in bioengineering such as ethics, clinical trials, regulatory issues, venture capitalism, business principles, and entrepreneurship.

Thanks to the breadth of our program, Maryland graduates are presented with a full range of career opportunities in medicine, human health, government, dentistry, law,

pharmaceuticals, biotechnology, ecological engineering, environmental engineering, biomedical devices, bioprocessing, and teaching.

### Important Contacts

Michelle French  
Academic Coordinator, Undergraduate Program  
Room 2218 Jeong H. Kim Engineering Building  
E-mail: [mfrench@umd.edu](mailto:mfrench@umd.edu)  
Phone: 301 405 6769

Dr. John P. Fisher  
Associate Professor & Associate Chair, Director of Undergraduate Program  
Room 3238 Jeong H. Kim Engineering Building  
E-mail: [jpfisher@umd.edu](mailto:jpfisher@umd.edu)  
Phone: 301 405 7475

Fischell Department of Bioengineering, Main Office  
Room 2330 Jeong H. Kim Engineering Building  
E-mail: [bioe-undergrad@umd.edu](mailto:bioe-undergrad@umd.edu)  
Web: <http://www.bioe.umd.edu>  
Phone: 301 405 7426

Engineering Undergraduate Advising and Academic Affairs  
A. James Clark School of Engineering  
1131 Glenn L. Martin Building  
E-mail: [engrhelp@umd.edu](mailto:engrhelp@umd.edu)  
Web: <http://www.eng.umd.edu>  
Phone: 301 405 9442

### Department Chair

Dr. William E. Bentley  
Robert E. Fischell Distinguished Professor & Chair  
Room 2330 Jeong H. Kim Engineering Building  
E-mail: [bentley@umd.edu](mailto:bentley@umd.edu)  
Phone: 301 405 4321

## Sample Bioengineering Program

Students are *strongly* encouraged to follow the sample program below as closely as possible. Most courses are offered only once per year, either in the fall semester or in the spring semester. Since the courses build upon each other, it is critical that they are taken in the specified order. Taking the courses in order will also help students meet the benchmark reviews (see page 8 for additional information).

<b>Freshman Year: Fall Semester</b>				<b>Freshman Year: Spring Semester</b>			
<b>Course</b>			<b>Cr</b>	<b>Course</b>			<b>Cr</b>
ENES 100	Intro to Engineering Design		3	ENES 102	Statics		3
MATH 140	Calculus I		4	MATH 141	Calculus II		4
CHEM 135	General Chemistry I		3	PHYS 161	General Physics		3
CHEM 136	General Chemistry Lab		1		CORE I		3
BIOE 120	Biology for Engineers		3	ENGL 101	Intro to Writing		3
BIOE 121	Biology for Engineers Lab		1				
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>16</b>
<b>Sophomore Year: Fall Semester</b>				<b>Sophomore Year: Spring Semester</b>			
<b>Course</b>			<b>Cr</b>	<b>Course</b>			<b>Cr</b>
CHEM 231	Organic Chemistry		3	MATH 246	Differential Equations		3
CHEM 232	Organic Chemistry Lab		1	ENME 232	Thermodynamics		3
PHYS 260	General Physics		3	BSCI 330	Cell Biology & Physiology		4
PHYS 261	General Physics Lab		1	BIOE 241	Biocomputational Methods		3
MATH 241	Calculus III		4		CORE II		3
ENES 220	Mechanics of Materials		3				
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>16</b>
<b>Junior Year: Fall Semester</b>				<b>Junior Year: Spring Semester</b>			
<b>Course</b>			<b>Cr</b>	<b>Course</b>			<b>Cr</b>
BIOE 340	Model Physio Sys & Lab		4	BIOE 332	Transport Process		3
ENCE 305	Engineering Fluids OR		3	BIOE 420	Bioimaging		3
ENME 331	Fluid Mechanics			BIOE 453	Biomaterials		3
BIOE 455	Basic Electronic Design		3	BIOE 454	Biomaterials Lab		1
	Biological Sciences Elective I		3		Biological Sciences Elective II		3
	CORE III		3		CORE IV		3
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>16</b>
<b>Senior Year: Fall Semester</b>				<b>Senior Year: Spring Semester</b>			
<b>Course</b>			<b>Cr</b>	<b>Course</b>			<b>Cr</b>
BIOE 471	Biological Systems Control		3	BIOE 404	Biomechanics		3
BIOE 485	Capstone I		3	BIOE 486	Capstone II		3
BIOE 456	Bioinstrumentation		3		Engineering Science Elective		3
ENGL 393	Technical Writing		3		Biological Sciences Elective		3
	Engineering Science Elective		3		CORE V		3
	CORE VI		3				
<b>Total</b>			<b>18</b>	<b>Total</b>			<b>15</b>
<b>Total Credits: 127</b>							

## Four Year Template

*Please use this form to track your overall progress.*

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<b>First Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
ENES	100	3	
MATH	140	4	
CHEM	135	3	
CHEM	136	1	
BIOE	120	3	
BIOE	121	1	

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<b>Third Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
CHEM	231	3	
CHEM	232	1	
PHYS	260	3	
PHYS	261	1	
MATH	241	4	
ENES	220	3	

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<b>Fifth Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
BIOE	340	4	
ENCE	305	3	
BIOE	455	3	
Bio Sci	Elec 1	3	
CORE IV		3	

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<b>Seventh Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
BIOE	471	3	
BIOE	485	3	
BIOE	456	3	
ENGL	393	3	
Eng Sci	Elec 1	3	
CORE V		3	

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<b>Second Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
ENES	102	3	
MATH	141	4	
PHYS	161	3	
CORE I		3	
ENGL	101	3	

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<b>Fourth Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
MATH	246	3	
ENME	232	3	
BSCI	330	4	
BIOE	241	3	
CORE II		3	

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<b>Sixth Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
BIOE	332	3	
BIOE	420	3	
BIOE	453	3	
BIOE	454	1	
Bio Sci	Elec 2	3	
CORE IV		3	

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<b>Eighth Semester</b>			
<b>Course</b>		<b>Credits</b>	<b>Grade</b>
BIOE	404	3	
BIOE	486	3	
Eng Sci	Elec 2	3	
Bio Sci	Elec 3	3	
CORE VI		3	

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## CORE Courses and Electives

*Please use this form to track your electives and CORE courses.*

### 1. Humanities and the Arts

- HL \_\_\_\_\_
- HA \_\_\_\_\_
- HO/HA/HL/IE \_\_\_\_\_
- *Please Note: The HO category may also be satisfied by HA, or HL, or an IE (Interdisciplinary and Emerging Issues) course.*

### 2. Science and Math

- *Satisfied by successful completion of BIOE major requirements.*

### 3. Social Science and History

- SH \_\_\_\_\_
- SB \_\_\_\_\_
- SB/IE \_\_\_\_\_
- *Please Note: One of the SB courses may be substituted by an IE course.*

### 4. Diversity

- D \_\_\_\_\_
- *Please Note: If any of the courses taken under numbers 1 and 3 have a (D) after the course title, it would also satisfy this category.*

### 5. Advance Core

- CAPSTONE (BIOE 486)
- *A Biological Science Elective at 300 level or higher will satisfy this category.*

### Engineering Science Electives

- Course 1: \_\_\_\_\_
- Course 2: \_\_\_\_\_
- *Please Note: At least one of these courses must be 300 level or higher.*

### Biological Sciences Electives

- Course 1: \_\_\_\_\_
- Course 2: \_\_\_\_\_
- Course 3: \_\_\_\_\_
- *Please Note: At least one of these courses must be 200 level or higher and at least one must be 300 level or higher.*

## Advising

Every student majoring in bioengineering is assigned a faculty advisor. You will receive an email from the department with your advisor assignment at the beginning of your first semester in the department. All students are *required* to meet with their advisor each semester before they will be able to register for the next semester's courses. It is hoped that the advisor will also serve as a mentor and confidante. Please feel free to contact him/her with any questions and concerns you may have throughout your academic career.

## Registration

Each semester students are given an appointment for early registration based on their credit level. Students are notified of their appointment date and time by email. The appointment time is also available in students' TESTUDO accounts. Students will not be able to register until they have met with their assigned faculty advisor (see Advising section) and received an advising stamp.

During the drop period, a student may drop a maximum of 4 credits. Drops performed during this period will be recorded on the students permanent record with a notation of 'W' for withdrawal.

## Benchmarks

The goal of the Student Academic Success Degree Completion Policy is to promote undergraduate student success. This is accomplished through a series of Benchmarks as described below. For each Benchmark, the student will be assigned a status of 'Pass', 'Fail', or 'Fail but Continue'. Students who 'Fail' will be required to change their major out of engineering. Students who receive 'Fail but Continue' will be required to meet with Michelle French, the Undergraduate Coordinator, and their faculty advisor to discuss their plan to make the necessary progress towards completion of the degree requirements. If a student fails to make necessary progress based on the plan developed between the student and his/her advisor, they are at risk of being required to change their major outside of engineering.

### **45 Credit Review:** *This gateway review is administered by the Office of Undergraduate Advising & Academic Support*

Students who are directly admitted to Engineering from high school are reviewed for successful completion of the 45 credit review in the semester in which they attain 45 University of Maryland credits. The primary requirements of the review are:

- CHEM 135 with a minimum grade of 2.0
- MATH 141 with a minimum grade of 2.0
- PHYS 161 with a minimum grade of 2.0
- ENES 100 with a minimum grade of 2.0
- Fundamental Studies in English
- One Distributive Studies course from the Humanities or Social Sciences
- No more than one repeat of any of the courses above (a 'W' counts as an attempt)

- Minimum grade point average of 2.0

**2<sup>nd</sup> Benchmark:** *This review is administered by the Bioengineering Department*

Two semesters after students are initially reviewed for the 45 credit review OR two semesters after students transfer into the Clark School of Engineering (as an internal or external transfer), students must have successfully completed the following:

- All required 100 and 200 level MATH courses
- All required 100 and 200 level PHYSICS courses
- All required 100 and 200 level ENES courses
- BIOE 120 AND BIOE 121
- CHEM 231, 232 AND BSCI 330

**3<sup>rd</sup> Benchmark:** *This review is administered by the Bioengineering Department*

Two semesters after students are reviewed for the 2<sup>nd</sup> benchmark, students must have successfully completed the following:

- ENME 232 OR ENME 320
- ENCE 305, ENME 331 OR BIOE 331)
- BIOE 241
- At least one 300 level or above BIOE course
- An approved biological science or engineering science technical elective

## Graduation

Students must apply for graduation at the beginning of the semester in which they intend to graduate. There are several steps that must be complete before it is possible to apply.

- Fill in the requested information and then print out a graduation worksheet (website will be given during semester of graduation).
- Complete a senior survey AND print out the confirmation receipt (not the entire survey). Please see the following website: <http://www.eng.umd.edu/survey/grad/>
- Print out and attach a degree audit from Degree Navigator. Please see the following website: [www.testudo.umd.edu/dnentry.html](http://www.testudo.umd.edu/dnentry.html).\*\*
- Apply on-line to graduate by deadline. Please see the following website: <http://www.TESTUDO.umd.edu/apps/candapp/>.

*\*\*Please note that there are often corrections that need to be made and courses that need to be entered on Degree Navigator. In order to ensure that all information is correct on Degree Navigator, please schedule a Senior Audit appointment with your faculty advisor at the start of your final semester or during the advising session on the semester before your final semester.*

## Academic Difficulty

Sometimes students run into academic difficulties. In some cases, this is a serious indication that this may not be the right major for you. If you feel that this may be the case, please contact your faculty advisor immediately to discuss your options. In other cases, this is simply an indication that time-management, study habits, and priorities

need to be re-evaluated as well as adjusted. Either way, there are policies and guidelines in place to help deal with these circumstances.

#### Freshman Forgiveness/University Repeat Policy

- Any course may be attempted a maximum of two times
- Students may repeat up to 18 credit hours.
- A 'W' (withdrawal) counts as an attempt.
- Both attempts at a course are calculated into the GPA unless the course was originally taken during the first semester or within the first 24 credits taken at UMCP (this includes transfer credits from another institution, but not AP/IB credits). For those courses, there is a grace period where only the new grade will be calculated into the GPA. *Please note the original grade is not deleted from the transcript.*
- No more than 4 credits may be dropped during one semester.

For more information, please see: <http://www.testudo.umd.edu/soc/repeat.html>.

Appeals of any of these policies will be considered. To appeal, please visit the following website [http://www.eng.umd.edu/advising/advising\\_forms.html](http://www.eng.umd.edu/advising/advising_forms.html) and fill out the "Exception to Policy" form.

#### Academic Probation

An engineering student is placed on academic probation if their cumulative GPA falls below a 2.0. If a student has less than 60 credits when placed on probation, then they are permitted to continue in the major as long as a minimum semester GPA of 2.0 is achieved. If a student has more than 60 credits when placed on academic probation, then they will be allowed one probationary semester. If their cumulative GPA remains below a 2.0, the student will be dismissed from the School of Engineering.

All students on academic probation are required to complete the CARE (Creating Academic Responsibility in Engineering) program conducted by the Engineering Undergraduate Advising & Academic Affairs Office. Additionally, all students on probation will have an academic hold placed on their file and will not be allowed to add or drop any courses until the CARE program is completed. There are three steps to the process.

- Complete CARE modules (students will receive an email from Engineering Undergraduate Advising Office with instructions to modules).
- Meet with assigned faculty advisor.
- Meet with an advisor in the Engineering Undergraduate Advising Office.

#### Advising for Professional Schools

Many Bioengineering students plan to attend professional schools upon completion of their undergraduate degree. Most of the courses required for medical school and dental school are included in the Bioengineering program. At the University of Maryland there are offices specifically dedicated to pre-medical, pre-dental school, and pre-law advising. Students who are interested in these professions are strongly encouraged to contact the appropriate advising offices and take advantage of their services *as early in*

*their undergraduate career as possible.* Information on pre-med, pre-dental and pre-law student organizations can also be found at the following advising websites.

Health Professions Advising Office  
0129 Chemistry Building  
Phone: 301-405-7805  
Web: [www.prehealth.umd.edu](http://www.prehealth.umd.edu)

Pre-Law Advising Office  
0110 Hornbake Library  
Phone: 301-405-2793  
Web: [www.prelaw.umd.edu](http://www.prelaw.umd.edu)

### **Student Organizations**

The Society of Biological Engineers (SoBE) is an outstanding student organization that all Bioengineering majors at the University of Maryland are encouraged to join. SoBE represents the student branch of two professional societies: the American Society of Agricultural and Biological Engineers (ASABE) and the Biomedical Engineering Society (BMES). Members of SoBE have the opportunity to meet and mingle with other students in the major, as well as gain an introduction to the professional world of bioengineering. Meetings are held monthly and a variety of activities take place throughout the year, including pizza parties, crab feasts, and bowling parties, just to name a few. Membership is free, so please visit the Society's website to see how you can become involved: <http://www.studentorg.umd.edu/sobe/index.html>.

### **Internship Opportunities**

There are internship opportunities available to all Bioengineering students who desire them. To find the internship that is right for you, feel free to utilize the following resources.

- The School of Engineering has a Co-Op and Career Services office available to all engineering students. This is a valuable resource for students looking for internships, as well as post-graduation job placement. This service works by maintaining a database of companies looking to hire current engineering students and recent graduates and a database of students looking to be hired. All bioengineering students are encouraged to sign up for this free service by visiting their website at <http://www.coop.eng.umd.edu/index.php>.
- Michelle French, the Undergraduate Coordinator, regularly receives requests for student interns from various organizations. All of these requests are forwarded via email to all Bioengineering undergraduates. Be sure to look for these emails and respond in a timely manner if you are interested.
- Research Experience for Undergraduates: The National Science Foundation supports summer research opportunities. Students must apply and be selected to work in different programs and laboratories around the country. Please see: [www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5517&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund).

- Undergraduate Research Apprentice Program: Students spend four to six hours a week working with or under the direction of a faculty mentor on that faculty member's own research and receive an Undergraduate Research Assistant notation on their transcript at the conclusion of the assistantship. Please see: [www.ugresearch.umd.edu/studentresearchers.html](http://www.ugresearch.umd.edu/studentresearchers.html).
- Individual faculty members may provide for possible volunteer or paid internships in their research laboratories.

## Study Abroad

Study abroad is a wonderful opportunity for students to broaden their horizons and enrich their educational experience by immersing themselves in a foreign culture. If studying abroad is something you are interested in, it is in your best interest to begin the following process as early in your undergraduate degree as possible. Please follow the guidelines detailed below.

- Meet with Ms. Jane Fines, the Director for the School of Engineering Recruitment and Special Programs, to discuss your plans (Email: [jfines@umd.edu](mailto:jfines@umd.edu), Phone: 301 405 3857).
- Print out a minimum of 6 to 8 courses you are interested in taking at the host university.
- Meet with your faculty advisor for evaluation and completion of the study abroad form

*Please Note: Course equivalencies should be identified BEFORE you leave for study abroad. If you wish to transfer a course equivalent to a BIOE course, then you will likely need to submit host university course information for evaluation directly to the BIOE faculty teaching the course at UMD. Other courses may transfer as CORE courses, engineering science electives, or biological science electives at 100, 200, or 300 levels. Your faculty advisor has final judgment.*

*Please Note: The University also has a Study Abroad Office that provides forms and services/information for study abroad. Each student is advised to take advantage of their services and information: <http://www.international.umd.edu/studyabroad>.*

## Special Programs

The Engineering Honors Program (EHP) provides eligible students the opportunity to pursue an enriched program of study in engineering. Engineering students meeting all of the following criteria are eligible to apply:

- Upper fourth of engineering juniors and seniors based on GPA
- Junior standing of 60 applicable credits
- Completion of at least one semester at the University of Maryland

For more information please visit [www.eng.umd.edu/current/current\\_honors.html](http://www.eng.umd.edu/current/current_honors.html)

The Hinman CEOs Program is the nation's first living-learning entrepreneurship program. This program brings together entrepreneurially-minded students from all academic disciplines to explore business ventures. For more information please visit [www.hinmanceos.umd.edu](http://www.hinmanceos.umd.edu).

The Quality Enhancement Systems and Teams Program (QUEST) is a 3-year collaborative effort between the Robert H. Smith School of Business, College of Computer, Mathematical and Physical Sciences, and the A. James Clark School of Engineering. This program features team-based courses focusing on quality management in the workplace. For additional information, please visit [www.rhsmith.umd.edu/quest](http://www.rhsmith.umd.edu/quest).

### **Discrimination**

The University of Maryland is actively committed to providing equal educational and employment opportunity in all of its institutions and programs. The University does not discriminate on the basis of race, color, religion, age, national origin, sex, or disability, and all policies, programs, and activities of the University are and shall be in conformity with all pertinent federal and State laws including, but not limited to, Title VI of the Civil Rights Act of 1964 as amended, Title IX of the 1972 Education Amendments, and Section 504 of the Rehabilitation Act of 1973. To review the University's human relations code in full, please visit [www.president.umd.edu/policies/vi100b.html](http://www.president.umd.edu/policies/vi100b.html).

### **Sexual Harassment**

The University of Maryland is also committed to maintaining a working and learning environment free of intimidation, fear, coercion, and reprisal. Accordingly, the Campus prohibits sexual harassment. The University defines sexual harassment as: (1) unwelcome sexual advances; or (2) unwelcome requests for sexual favors; or (3) other behavior of a sexual or gender-based nature where:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or participation in a University-sponsored educational program or activity; or
- Submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or
- Such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance, or of creating an intimidating, hostile, or offensive educational or working environment.

For more information on the University of Maryland's sexual harassment policy, please visit [www.president.umd.edu/policies/vi120a.html](http://www.president.umd.edu/policies/vi120a.html).

### **Student Conduct**

Students are expected to exercise appropriate conduct both on and off campus. A complete list of conduct considered prohibited as well as procedures for resolving allegations of misconduct may be found in the "Code of Student Conduct" available through the Office of Student Conduct website at [www.studentconduct.umd.edu](http://www.studentconduct.umd.edu). Sanctions for violations of conduct regulations include disciplinary probation, suspension, and expulsion. In addition, the University of Maryland has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council.

This Code sets standards for academic integrity at Maryland for all students. Any of the following acts would be considered an instance of academic dishonesty.

- **Cheating:** Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
- **Fabrication:** Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.
- **Facilitating Academic Dishonesty:** Intentionally or knowingly helping or attempting to help another to violate any provision of this Code.
- **Plagiarism:** Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise.

All members of the University community - students, faculty, and staff - share the responsibility and authority to challenge and make known acts of apparent academic dishonesty. For more information on the Code of Academic Integrity and the Student Honor Council, please visit [www.shc.umd.edu](http://www.shc.umd.edu).

### Frequently Asked Questions

*What do I need to do if I want to take a course somewhere else?*

- You need to fill out the “Permission to Enroll in Another Institution Form” found at [http://www.eng.umd.edu/advising/advising\\_forms.html](http://www.eng.umd.edu/advising/advising_forms.html). Directions for submission are also found at this site. This should be submitted before you take the course.

*What is the maximum number of credits I can register for?*

- Freshmen are allowed a maximum of 17 credits per semester. All other students are allowed a maximum of 18 credits per semester. If you wish to appeal to take more credits, the can fill out an “Exception to Policy Form” found at [http://www.eng.umd.edu/advising/advising\\_forms.html](http://www.eng.umd.edu/advising/advising_forms.html).

*Why doesn't my Degree Navigator reflect all my courses?*

- Some things have to be manually entered into Degree Navigator. This is typically done the semester before graduation. If you would like this done sooner, contact your faculty advisor.

*What do I do if I need a stamp for a course or a registration block removed?*

- If a stamp is necessary for a BIOE or ENES course, contact your faculty advisor. If a stamp is required for any other course, contact the department offering the course. Contact your faculty advisor in the event of a registration block.

*How long does it take to graduate?*

- The program is designed to be completed in 4 years. AP credit, summer/winter courses, study abroad, and special programs (Gemstone, Honors, Quest) may affect the length of time it takes to graduate.

*What is the difference between bioengineering and biomedical engineering?*

- Bioengineering is a more broad based education that includes, but is not limited to, biomedical engineering topics.

*What do students do after graduation?*

- Many students work at biotechnology companies, work at government agencies (NIH, FDA, NIST), attend graduate school, attend medical school, or enter other post-baccalaureate programs.

## **Notes**

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