



**Summer 2012**  
*Course Schedule*

# Registration Schedule

Summer Term 2012

## Registration Information

### Academic Calendar

Registration Opens	March 22, 2012
Registration Closes	May 25, 2012
Orientation for First Time Online Students	May 23 - 28, 2012
First Day of Classes	May 29, 2012
Final Day to Add Online Courses	June 6, 2012
Final Day to Add Courses	2nd Class Meeting
Tuition Payment Deadline	June 12, 2012
Withdraw/Audit Deadline Online Courses	9th week
Withdraw/Audit Deadline	9th Class Meeting
Holidays	July 4, 2012
Last Day of Classes*	August 20, 2012

\*The last class meeting is for either a final examination or instruction

### Education Centers

APL (From Baltimore)	443.778.6510
APL (From Washington DC)	240.228.6510
Dorsey Student Services Center	410.516.2300

### Student Services

Disability Services	410.516.2270
Financial Aid (146 Garland Hall)	410.516.8028
University Registrar (75 Garland Hall)	410.516.8083
Student Accounts (033B Garland Hall)	410.516.8158
Transcripts (75 Garland Hall)	410.516.7088
Veterans Certification (75 Garland Hall)	410.516.7071

### Refund Schedule

Withdrawal	Refund
Prior to third class meeting	100%
Prior to fourth class meeting	75%
Prior to fifth class meeting	50%
Prior to sixth class meeting	25%

### Graduation

<b>Graduation Application Deadline</b> ep.jhu.edu/graduation-application	The admission process is handled on a continuing basis
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### General Contact Information

<b>Admissions/Registration</b> (Dorsey student Services Center)	1.800.548.3647 Fax 410.579.8049
<b>EP e-mail</b>	ep@jhu.edu
<b>EP website</b>	ep.jhu.edu

## Registration

Before registering for any engineering classes, each student must apply as a degree or certificate candidate, or as a special student, and must submit appropriate application materials for review. Application procedures are found on the Admission Requirements page. Applications are accepted on a continuing basis.

Payment of tuition is due by the specified deadline listed in the academic calendar. Payment may be made by check, VISA, MasterCard, Discover, tuition remission, or company contract accompanied by purchase order. We will not defer payment when companies provide tuition reimbursement at the end of the term. In this instance, students must pay tuition themselves and be reimbursed by their employer. If payment is not made by the deadline date, a late payment fee of \$150 will be incurred.

If you have registered and have not paid your balance, an email statement will be sent to you on the 16th of each month with the balance due the University. This is not a bill. This is a reminder of the debt owed to the University and is a reflection of your account status at the time of the email. Changes in circumstances may have an effect on the amount that you are responsible to pay, for instance, adding or dropping courses, late registration, or late payment fees.

Students are not permitted to register if there are unpaid bills from a previous term.

## Course Schedule

The EP course schedule, which lists the day, time, location, and instructor for each course, is available on the web at [ep.jhu.edu](http://ep.jhu.edu) prior to each registration period. All students who have been enrolled in courses during the previous year will receive notification of the web posting of the Course Schedule. All relevant registration forms and deadlines can be found on the EP website.

## Course Numbering System

All Whiting School of Engineering courses are numbered in the form 605.402, where 605 indicates the program—in this example, Computer Science, 402 indicates the course number—in this example, Software Analysis and Design.

Courses with a zero before the first decimal point—e.g. 600.439—are daytime offerings of the Whiting School departments.

## Course Credit

All EP courses 200-level and above are assigned 3 credit hours.

## Late Registration

Students may register after the beginning of a term if necessary. However, students enrolling in their first JHU EP online course must be registered no later than a week and a half prior to the first day of classes in order to attend a mandatory online orientation prior to the start of the term. The deadline for adding online courses is a week after the first day of classes each term, which is earlier than the deadline for conventional classes. See the Registration schedule page for a detailed description of the orientation and student participation requirements. Students who delay registering until these times may find course selection severely restricted.

## Interdivisional Registration

With approval of their advisers, students are encouraged to take courses in the full-time programs of the Whiting School or in other divisions of the University. Registration for these classes should be submitted on the EP registration form. Please note that tuition rates vary by division.

Students in other divisions of Johns Hopkins may register for EP courses, subject to the regulations of their home divisions and availability of space. The form requesting registration is available at the Homewood Registrar's Office, 75 Garland Hall.

## Course Enrollment Limits

In order to foster high-quality faculty-student interaction, all courses have enrollment limits. Although every effort is made to offer additional sections of over-subscribed courses, this is not always possible.

Students may ask to be placed on waiting lists if their desired courses are filled or they may indicate alternate course selections.

The university reserves the right to change instructors or to cancel any course with insufficient enrollment or for reasons beyond the control of the university.

## Course Load

Students who are employed full-time are strongly urged to limit their course load to no more than two per term.

## Auditors

Students may register as auditors with the approval of the appropriate program adviser. Although regular attendance is expected of auditors, they are exempt from quizzes, examinations, and other assigned work, and they receive no credit for the course. Students who are enrolled for credit but wish to become auditors must file the "add/drop" form before the deadline listed for each term in the Academic and Registration Calendar. There is no reduction in fees when auditing a course.

## Tuition and Fees

Students whose tuition is paid by contract should begin processing requests with their employers well before registration deadlines to ensure that payment is made as required. Students are ultimately responsible for all costs associated with their registration.

## Tuition

The graduate tuition fee is \$3,175 per course, unless otherwise noted. The tuition for 200-level courses is \$1,745. Tuition for courses in the daytime programs of the Whiting School is a percentage of full-time tuition. If students need a receipt for the classes they are attending they may contact Student Accounts at 410.516.2230.

## Application Fee

The fee for degree and certificate programs and special students is \$75. This fee must be submitted with the application and is not refundable under any circumstances. Whiting School of Engineering degree and certificate recipients who wish to enter into another degree or certificate program may apply without paying an application fee.

## Graduation Fee

The graduation fee is \$100 and is payable upon receipt of a bill from the office of Student Accounts.

## Late Tuition Payment Fee

Tuition payment due dates are indicated on the academic calendar. If payment is received after the due date, a late payment fee of \$150 will be incurred.

## Transfer Credit Fee

Graduate courses completed at another school and approved for transfer are assessed a fee of \$315 per course.

## Fee for Removal of an Incomplete Grade

Students who receive an incomplete grade for a course are required to pay a \$60 fee to have the I grade changed to the final grade. This fee must be paid to the EPP office, Dorsey Student Services Center before the grade change can be released by the Registrar. No payment is required if the final grade is an F. (See Incomplete Policy on the Academic Regulations page.)

## Facilities and Student Services

Students who are enrolled at the Johns Hopkins University for the first time and who are receiving federal student financial aid are subject to a separate refund policy during their first period of enrollment. Refer to Title IV Refunds on the Financial Aid page for further information.

EP courses are offered at the Homewood campus in Baltimore, the Applied Physics Laboratory (APL) in Laurel, Montgomery County Campus in Rockville, the Dorsey Student Services Center near BWI Thurgood Marshall Airport, the Southern Maryland Higher Education Center in St. Mary's County, the Washington Center in Washington, D.C., the Higher Education and Conference Center (HEAT) in Harford County, the Crystal City Center in Arlington, Virginia, and fully online. The educational and student facilities and services provided at each location are described below.

## Student ID JCards

University identification cards are mailed to the home address of every registered student. The JCard acts as the university library card, which enables students to check out books from the Homewood Eisenhower Library or at any of the campus center libraries, and provides access to many computer laboratories. To replace a lost or stolen JCard, contact the JCard Office at 410.516.5121.

## Transcripts

Official transcripts will be mailed upon written request of the student at no charge. Requests for transcripts should be addressed to the Office of the Registrar, 75 Garland Hall or faxed to 410.516.6477. If faxed, please provide a photocopy of two forms of identification. Transcripts may also be ordered online from <http://www.studentclearinghouse.org> for a fee. For more information about each of these options, see [ep.jhu.edu/transcript](http://ep.jhu.edu/transcript).

## International Student Services

Students may contact the International Student & Scholar Services at 410.516.1013. For more details please refer to the Admission Requirements section.

## Services for Students with Disabilities

Johns Hopkins University is committed to making all academic programs, support services and facilities accessible to qualified individuals. Students with disabilities who require reasonable accommodations should contact the disability services coordinator, at 410.516.2300 or at [ep@jhu.edu](mailto:ep@jhu.edu). In order to receive accommodations, it is important to provide to the university a comprehensive evaluation of a specific disability from a qualified diagnostician that identifies the type of disability, describes the current level of functioning in an academic setting and lists recommended accommodations. All documentation will be reviewed and reasonable accommodations will be provided based on the student's needs. Students are required to contact the EP office at least four weeks prior to the beginning of each semester to ensure that services will be available.

For questions or concerns regarding university-wide disability issues, contact Peggy Hayeslip, Director, ADA Compliance and Disability Services, 410.516.8949, or [phayeslip@jhu.edu](mailto:phayeslip@jhu.edu).

## Inclement Weather

The JHU Weather Emergency Line can be reached at 410.516.7781 or 800.548.9004. The JHU Weather Emergency Line provides information on class and campus closing, due to inclement weather. The university may also use the same phone lines occasionally to distribute other urgent information. Announcements and closings will also be posted on the website: [webapps.jhu.edu/emergencynotices](http://webapps.jhu.edu/emergencynotices).

## Web-based Student Directory

JHED (Johns Hopkins Enterprise Directory) is the primary source for contact information of Johns Hopkins students. Your JHED login ID will be used for many web-based services, such as online registration, remote library access, and some course web sites. You may find your login ID and initiate your account by going to <http://jhed.jhu.edu> from a computer at any of the campuses or by calling 410.516.HELP. Once you have set a password, you may use JHED from anywhere by logging in. If you have any questions, contact Hopkins Information Technology Services at 410.516.HELP.

## Independent Study/Special Project

If you expect to register for an independent study or special project course this semester, please obtain an Independent Study/Project form from any of the offices or the website as soon as possible. Use this form to describe your project and gather the appropriate signatures. Registrations for independent study/special project courses cannot be processed without submission of this form. **If this is to be a Summer 2012 course, all necessary documents must have been received by the EP Dorsey Office by June 12th, the mail in deadline. Any project forms submitted after the above deadline will NOT be accepted.** Independent study/special project courses must be completed by the end of the term.

# Applied and Computational Mathematics

## *Applied Physics Laboratory*

### 625.436.31 Graph Theory (Open)

M	5:00PM-7:40PM	05/30/2012 - 07/18/2012	Room: K6	\$3,175	DeVinney, J.
W	5:00PM-7:40PM				

### 625.703.31 Functions of a Complex Variable (Open)

W	5:00PM-8:05PM	05/30/2012 - 08/15/2012	Room: K4	\$3,175	Whisnant, J. Weisman, M.
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### 625.714.31 Introductory Stochastic Differential Equations with Applications (Open)

TU	7:20PM-10:00PM	06/05/2012 - 07/17/2012	Room: L4	\$3,175	Burkhardt, J.
TH	7:20PM-10:00PM				

### 625.725.31 Theory of Statistics I (Open)

TU	4:30PM-7:35PM	05/29/2012 - 07/05/2012	Room: L3	\$3,175	Aminzadeh, M.
TH	4:30PM-7:35PM				

## *Montgomery County Campus*

### 625.409.71 Matrix Theory (Open)

TU	4:40PM-7:55PM	06/05/2012 - 08/21/2012	Room: Gilchrist20	\$3,175	Rio, D.
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## *Online*

### 625.201.81 General Applied Mathematics (Open)

		05/29/2012 - 08/20/2012	Room:	\$1,745	Davis, C.
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### 625.403.81 Statistical Methods and Data Analysis (Closed)

		05/29/2012 - 08/20/2012	Room:	\$3,175	Bodt, B.
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# Applied Biomedical Engineering

## *Applied Physics Laboratory*

### 585.209.31 Organic Chemistry (Open)

M	4:30PM-7:35PM	06/11/2012 - 07/23/2012	Room: L6	\$1,745	Potember, R.
W	4:30PM-7:35PM				

**585.609.31 Cell Mechanics (Open)**

TU 7:00PM-10:05PM 05/29/2012 - 07/05/2012 Room: L6 \$3,175 Spector, A.  
 TH 7:00PM-10:05PM

## Applied Physics

**615.441.31 Mathematical Methods for Physics and Engineering (Open)**

TU 4:30PM-7:35PM 07/10/2012 - 08/16/2012 Room: L3 \$3,175 Adelman, P.  
 TH 4:30PM-7:35PM

**615.451.31 Statistical Mechanics and Thermodynamics (Open)**

W 7:00PM-10:05PM 05/30/2012 - 08/15/2012 Room: K2 \$3,175 Kundu, P.

**615.471.31 Principles of Optics (Closed)**

TU 4:30PM-7:35PM 05/29/2012 - 07/05/2012 Room: L2 \$3,175 Edwards, C.  
 TH 4:30PM-7:35PM Ohl, IV, R.

**615.480.31 Materials Science (Open)**

TU 4:30PM-7:35PM 05/29/2012 - 07/05/2012 Room: K4 \$3,175 Charles, H.  
 TH 4:30PM-7:35PM

**615.765.31 Chaos and Its Applications (Open)**

TU 7:00PM-10:05PM 05/29/2012 - 07/05/2012 Room: K5 \$3,175 Liakos, A.  
 TH 7:00PM-10:05PM

## Chemical and Biomolecular Engineering

### *Independent Study/Project*

**545.801.21 Indep Study Chem Engr (Open)**

05/29/2012 - 08/03/2012 Room: \$3,175 Betenbaugh, M.

## Civil Engineering

### *Dorsey Center*

**565.430.91 Structural Design with Timber and Masonry (Open)**

M 7:00PM-10:05PM 05/31/2012 - 07/09/2012 Room: D210 \$3,175 Sangree, R.  
 TH 7:00PM-10:05PM

**565.475.91 Advanced Soil Mechanics (Open)**

TU 7:00PM-10:05PM 05/29/2012 - 07/04/2012 Room: D210 \$3,175 Anandarajah, A.  
 W 7:00PM-10:05PM

**565.650.91 Port and Harbor Engineering (Open)**

W 4:30PM-7:35PM 05/30/2012 - 08/15/2012 Room: D208 \$3,175 Hudson, P.

## Computer Science

### *Applied Physics Laboratory*

**605.201.31 Introduction to Programming Using Java (Open)**

TU 4:30PM-6:55PM 05/29/2012 - 07/19/2012 Room: K3 \$1,745 Ferguson, L.  
 TH 4:30PM-6:55PM

**605.204.31 Computer Organization (Open)**

M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: K1 \$1,745 Kann, C.

**605.401.31 Foundations of Software Engineering (Open)**

M 4:30PM-7:35PM 05/30/2012 - 07/11/2012 Room: K5 \$3,175 Lindberg, J.  
 W 4:30PM-7:35PM

**605.404.31 Object Oriented Programming with C++ (Open)**

TU 7:00PM-9:25PM 05/29/2012 - 07/19/2012 Room: K3 \$3,175 Ferguson, L.  
 TH 7:00PM-9:25PM

**605.411.31 Foundations of Computer Architecture (Open)**

TU 4:30PM-6:55PM 05/29/2012 - 07/19/2012 Room: K1 \$3,175 Malcom, H.  
 TH 4:30PM-6:55PM

**605.421.31 Foundations of Algorithms (Open)**

M 7:00PM-10:05PM 06/04/2012 - 08/20/2012 Room: L3 \$3,175 Maurer, W.

**605.445.31 Artificial Intelligence (Closed)**

TU 7:00PM-10:05PM 05/29/2012 - 08/14/2012 Room: K2 \$3,175 Butcher, S.

**605.481.31 Principles of Enterprise Web Development (Open)**

W 4:30PM-7:35PM 05/30/2012 - 08/15/2012 Room: L3 \$3,175 Spiegel, R.

**605.486.31 Mobile Application Development for the Android Platform (Closed)**

W 4:30PM-7:55PM 05/30/2012 - 08/15/2012 Room: K1 \$3,175 Stanchfield, S.

**605.759.31 Independent Project in Bioinformatics (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Staff

*Dorsey Center***605.704.91 Object-Oriented Analysis and Design (Open)**

TU 4:30PM-7:35PM 05/29/2012 - 08/14/2012 Room: D208 \$3,175 Schepers, H.

*Montgomery County Campus***605.407.71 Agile Software Development Methods (Open)**

TU 5:30PM-8:35PM 05/29/2012 - 07/05/2012 Room: Gilchrist216 \$3,175 Menner, W.  
TH 5:30PM-8:35PM

**605.411.71 Foundations of Computer Architecture (Open)**

M 4:30PM-7:35PM 05/31/2012 - 07/19/2012 Room: Gilchrist203 \$3,175 Beser, N.  
TH 4:30PM-7:35PM

**605.414.71 System Development in the UNIX Environment (Open)**

M 6:45PM-10:00PM 05/30/2012 - 07/09/2012 Room: Gilchrist203 \$3,175 Ching, P.  
W 6:45PM-10:00PM

**605.421.71 Foundations of Algorithms (Open)**

F 4:30PM-7:35PM 06/01/2012 - 08/17/2012 Room: Gilchrist203 \$3,175 Lew, W.

**605.456.71 Computational Drug Discovery and Development (Open)**

TU 7:00PM-10:00PM 05/29/2012 - 08/14/2012 Room: Gilchrist303 \$3,175 Kumar, S.

**605.471.71 Principles of Data Communications Networks (Open)**

TU 6:30PM-9:10PM 05/29/2012 - 07/12/2012 Room: Gilchrist307 \$3,175 Boules, R.  
TH 6:30PM-9:10PM

**605.478.71 Cellular Communications Systems (Open)**

SA 9:00AM-12:15PM 06/02/2012 - 08/18/2012 Room: Gilchrist203 \$3,175 Shyy, D.

**605.704.71 Object-Oriented Analysis and Design (Open)**

M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: Gilchrist303 \$3,175 Demasco, J.

**605.772.71 Network Management (Open)**

TH 6:30PM-9:40PM 05/31/2012 - 08/16/2012 Room: A&amp;R209 \$3,175 Krishnan, I.

**605.785.71 Web Services with SOAP and REST: Frameworks, Processes, and Applications (Open)**

W 6:00PM-9:50PM 05/30/2012 - 08/01/2012 Room: Gilchrist216 \$3,175 Felikson, L.

**Online****605.202.81 Data Structures (Closed)**

05/29/2012 - 08/20/2012 Room: \$1,745 Chlan, E.

**605.202.82 Data Structures (Closed)**

05/29/2012 - 08/20/2012 Room: \$1,745 Resch, C.

**605.401.81 Foundations of Software Engineering (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Schappelle, S.

**605.401.82 Foundations of Software Engineering (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Schappelle, S.

**605.401.83 Foundations of Software Engineering (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Schappelle, S.

**605.411.81 Foundations of Computer Architecture (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Malcom, H.

**605.441.81 Principles of Database Systems (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Kung, D.

<b>605.443.81</b>	<b>The Semantic Web (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Cost, R.
<b>605.444.81</b>	<b>XML: Technology and Applications (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Chittargi, K.
<b>605.452.81</b>	<b>Biological Databases and Database Tools (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Hobbs, E.
<b>605.471.81</b>	<b>Principles of Data Communications Networks (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Nieporent, R.
<b>605.481.81</b>	<b>Principles of Enterprise Web Development (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Evans, R.
<b>605.741.81</b>	<b>Distributed Database Systems: Cloud Computing and Data Warehouses (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Silberberg, D.
<b>605.773.81</b>	<b>High-Speed Networking Technologies (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Krishnan, I.
<b>605.777.81</b>	<b>Internetworking with TCP/IP II (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Nieporent, R.
<b>605.784.81</b>	<b>Enterprise Computing with Java (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Felikson, L.

## Electrical and Computer Engineering

### *Applied Physics Laboratory*

<b>525.201.31</b>	<b>Circuits, Devices, and Fields (Open)</b>	05/30/2012 - 07/09/2012	Room: L2	\$1,745	Edwards, C.
M	4:30PM-7:35PM				
W	4:30PM-7:35PM				

**525.202.31 Signals and Systems (Open)**

M 4:30PM-7:35PM 07/11/2012 - 08/20/2012 Room: L2 \$1,745 Edwards, C.  
 W 4:30PM-7:35PM

**525.405.31 Intermediate Electromagnetics (Open)**

TH 6:00PM-9:05PM 05/31/2012 - 08/16/2012 Room: K2 \$3,175 Thomas, M.  
 Weiss, S.

**525.407.31 Introduction to Electronic Packaging (Open)**

TU 4:30PM-7:35PM 07/10/2012 - 08/16/2012 Room: K4 \$3,175 Charles, H.  
 TH 4:30PM-7:35PM

**525.419.31 Introduction to Digital Image and Video Processing (Open)**

TH 7:00PM-10:05PM 05/31/2012 - 08/16/2012 Room: K1 \$3,175 Nasrabadi, N.

**525.436.31 Optics and Photonics Laboratory (Open)**

M 7:00PM-9:25PM 05/30/2012 - 07/25/2012 Room: L5 \$3,175 Sova, R.  
 W 7:00PM-9:25PM

**525.442.31 VHDL/FPGA Microprocessor Design (Closed)**

TU 6:00PM-9:05PM 05/29/2012 - 08/14/2012 Room: K24 \$3,175 Hourani, R.

**525.445.31 Modern Navigation Systems (Open)**

M 7:20PM-10:00PM 05/30/2012 - 07/18/2012 Room: K3 \$3,175 Jablonski, D.  
 W 7:20PM-10:00PM

**525.446.31 DSP Hardware Lab (Closed)**

W 4:30PM-7:55PM 05/30/2012 - 08/15/2012 Room: K24 \$3,175 Wenstrand, D.  
 Haber, J.

**525.738.31 Advanced Antenna Systems (Open)**

M 7:00PM-10:05PM 06/04/2012 - 08/20/2012 Room: K2 \$3,175 Weiss, S.

**525.778.31 Design for Reliability, Testability, and Quality Assurance (Open)**

M 4:30PM-7:10PM 05/30/2012 - 07/18/2012 Room: K3 \$3,175 Jablonski, D.  
 W 4:30PM-7:10PM

**525.796.31 Introduction to High-Speed Electronics and Optoelectronics (Open)**

M 4:30PM-6:55PM 05/30/2012 - 07/25/2012 Room: L4 \$3,175 Sova, R.  
 W 4:30PM-6:55PM

***Dorsey Center*****525.414.91 Probability and Stochastic Processes for Engineers (Open)**

TU 4:30PM-6:55PM 05/29/2012 - 07/19/2012 Room: D212 \$3,175 Ambrose, H.  
 TH 4:30PM-6:55PM

**525.416.91 Communication Systems Engineering (Open)**

TH 4:30PM-8:20PM 05/31/2012 - 08/02/2012 Room: D211 \$3,175 Alexander, C.

**525.427.91 Digital Signal Processing (Open)**

TU 7:00PM-9:25PM 05/29/2012 - 07/19/2012 Room: D212 \$3,175 Ambrose, H.  
 TH 7:00PM-9:25PM

**525.440.91 Satellite Communications Systems (Open)**

TH 4:30PM-7:35PM 05/31/2012 - 08/16/2012 Room: D208 \$3,175 Carmody, J.

**525.791.91 Microwave Communications Laboratory (Open)**

TU 7:00PM-10:05PM 05/29/2012 - 07/05/2012 Room: D202 \$3,175 Everett, J.  
 TH 7:00PM-10:05PM Fazi, C.

***Montgomery County Campus*****525.416.71 Communication Systems Engineering (Open)**

SA 9:00AM-1:25PM 06/02/2012 - 07/14/2012 Room: Gilchrist20 \$3,175 Lee, R.

**525.721.71 Advanced Digital Signal Processing (Open)**

M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: Gilchrist30 \$3,175 Najmi, A.

**525.761.71 Wireless and Wireline Network Integration (Open)**

SA 1:30PM-5:55PM 06/02/2012 - 07/14/2012 Room: Gilchrist20 \$3,175 Lee, R.

***Online*****525.416.81 Communication Systems Engineering (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Marble, J.

<b>525.418.81</b>	<b>Antenna Systems (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Weiss, S. Roddewig, R.
<b>525.427.81</b>	<b>Digital Signal Processing (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Edwards, C. Edwards, L.
<b>525.438.81</b>	<b>Introduction to Wireless Technology (Withdrawn)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Roddewig, R.
<b>525.448.81</b>	<b>Introduction to Radar Systems (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Lum, J. Griffith, D.
<b>525.484.81</b>	<b>Microwave Systems and Components (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Edwards, L.

## Environmental Engineering, Science and Management

### *Dorsey Center*

<b>575.721.91</b>	<b>Air Quality Control Technologies (Open)</b>	M 6:00PM-9:05PM 06/04/2012 - 08/20/2012	Room: D202	\$3,175	Robert, M.
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### *Homewood Campus*

<b>575.713.1</b>	<b>Field Methods in Habitat Analysis and Wetland Delineation (Open)</b>	SA 9:00AM-12:05PM 06/02/2012 - 08/18/2012	Room:		Hilgartner, W.
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### *Montgomery County Campus*

<b>575.746.71</b>	<b>Water and Wastewater Treatment Plant Design (Open)</b>	TH 6:00PM-9:05PM 05/31/2012 - 08/16/2012	Room: Gilchrist203	\$3,175	Davies-Venn, C.
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### *Online*

<b>575.404.81</b>	<b>Principles of Environmental Engineering (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Alavi, H. Kim, E. Overcash, C.
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<b>575.404.82</b>	<b>Principles of Environmental Engineering (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Alavi, H. Kim, E. Overcash, C.
<b>575.408.81</b>	<b>Optimization Methods for Public Decision Making (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Williams, J.
<b>575.443.81</b>	<b>Aquatic Chemistry (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Gilbert, D.
<b>575.704.81</b>	<b>Applied Statistical Analyses and Design of Experiments for Environmental Applications (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Bodt, B.
<b>575.708.81</b>	<b>Open Channel Hydraulics (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Hudson, P.
<b>575.714.81</b>	<b>Water Resources Management (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Joseph, Jr., J. George, J.
<b>575.714.82</b>	<b>Water Resources Management (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Staff
<b>575.723.81</b>	<b>Sustainable Development and Next Generation Buildings (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Roper, W.
<b>575.723.82</b>	<b>Sustainable Development and Next Generation Buildings (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Staff

### *Washington DC Center*

<b>575.429.51</b>	<b>Modeling Contaminant Migration through Multimedia Systems (Open)</b>	TU 6:00PM-9:05PM 05/29/2012 - 08/14/2012	Room:	\$3,175	Root, R. Robert, M. Stoddard, A.
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**575.703.51 Environmental Biotechnology (Open)**

TU 6:00PM-9:05PM 05/29/2012 - 08/14/2012 Room: \$3,175 Wilson-Durant, L.

## Information Assurance

### *Applied Physics Laboratory*

**695.401.31 Foundations of Information Assurance (Open)**

M 4:30PM-6:55PM 05/30/2012 - 07/25/2012 Room: K2 \$3,175 Ambuel Donaldson, L.  
W 4:30PM-6:55PM

**695.421.31 Public Key Infrastructure and Managing E-Security (Open)**

M 4:30PM-7:35PM 05/31/2012 - 07/09/2012 Room: K24 \$3,175 Mitchel, K.  
TH 4:30PM-7:35PM

**695.721.31 Network Security (Open)**

M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: K4 \$3,175 Scoggins, S.

**695.742.31 Digital Forensics Technologies and Techniques (Open)**

TU 4:30PM-7:10PM 05/29/2012 - 07/12/2012 Room: L4 \$3,175 Ahmed, F.  
TH 4:30PM-7:10PM

### *Online*

**695.401.81 Foundations of Information Assurance (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Podell, H.

**695.701.81 Cryptology (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 May, R.

## Information Systems Engineering

### *Applied Physics Laboratory*

**635.482.31 Web Site Development (Open)**

TU 7:00PM-10:05PM 05/29/2012 - 07/05/2012 Room: K6 \$3,175 Noble, J.  
TH 7:00PM-10:05PM

**635.483.31 E-Business: Models, Architecture, Technologies and Infrastructure (Open)**

TU	4:30PM-7:35PM	05/29/2012 - 08/14/2012	Room: K7	\$3,175	Chittargi, K.
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## Mechanical Engineering

### *Dorsey Center*

**535.427.91 Computer-Aided Design (Open)**

TU	4:30PM-7:35PM	05/29/2012 - 07/05/2012	Room: D209	\$3,175	Boyle, M.
TH	4:30PM-7:35PM				

**535.441.91 Mathematical Methods for Engineers (Open)**

TU	4:30PM-7:35PM	05/29/2012 - 07/05/2012	Room: D201	\$3,175	Nakos, G.
TH	4:30PM-7:35PM				

**535.458.91 Design for Manufacturability (Open)**

M	4:30PM-7:35PM	06/04/2012 - 08/20/2012	Room: D208	\$3,175	Ivester, R.
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## Systems Engineering

### *Applied Physics Laboratory*

**645.467.31 Management of Systems Projects (Open)**

W	7:00PM-10:05PM	05/30/2012 - 08/15/2012	Room: K7	\$3,175	Cormier, E. Bernstein, J.
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**645.761.31 Systems Architecting (Open)**

W	4:30PM-8:05PM	05/30/2012 - 08/15/2012	Room: K8	\$3,175	Henry, M. Smithson, C.
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**645.768.31 System Design and Integration (Open)**

TH	4:30PM-7:35PM	05/31/2012 - 08/16/2012	Room: K7	\$3,175	Campbell, M.
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**645.800.23 Systems Engineering Master's Project (Open)**

		05/29/2012 - 08/20/2012	Room:	\$3,175	Seymour, S.
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### *Crystal City*

**645.753.38 Enterprise Systems Engineering (Open)**

W	5:30PM-8:35PM	05/30/2012 - 08/15/2012	Room:	\$3,175	Ziarko, J. Dahmann, J.
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**645.757.38 Foundations of Modeling and Simulation in Systems Engineering (Open)**

M 5:30PM-8:35PM 06/04/2012 - 08/20/2012 Room: \$3,175 Jones, M.

**645.800.38 Systems Engineering Master's Project (Open)**

05/29/2012 - 08/03/2012 Room: \$3,175 Seymour, S.

***Dorsey Center*****645.769.91 System Test and Evaluation (Open)**M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: D211 \$3,175 Ziarko, J.  
Krzystan, R.  
Sprigg, G.**645.800.29 Systems Engineering Master's Project (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Seymour, S.

***Heat Center*****645.800.26 Systems Engineering Master's Project (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Seymour, S.

***Independent Study/Project*****645.800.28 Systems Engineering Master's Project (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Seymour, S.

***Montgomery County Campus*****645.769.71 System Test and Evaluation (Open)**TU 4:30PM-7:50PM 05/29/2012 - 08/14/2012 Room: Gilchrist203 \$3,175 Britcher, R.  
Secen, A.**645.800.27 Systems Engineering Master's Project (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Seymour, S.

***Online*****645.462.81 Introduction to Systems Engineering (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Kane, J.

<b>645.462.82</b>	<b>Introduction to Systems Engineering (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Kane, J. Dever, J.
<b>645.467.81</b>	<b>Management of Systems Projects (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Utara, C. Saunders, J.
<b>645.467.82</b>	<b>Management of Systems Projects (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Utara, C. Leveque, R.
<b>645.467.83</b>	<b>Management of Systems Projects (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Saunders, J. Utara, C.
<b>645.761.81</b>	<b>Systems Architecting (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Henry, M.
<b>645.761.82</b>	<b>Systems Architecting (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Smithson, C.
<b>645.764.81</b>	<b>Software Systems Engineering (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Saunders, R. Tamer, J.
<b>645.764.82</b>	<b>Software Systems Engineering (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Mosley, V. Saunders, R.
<b>645.764.83</b>	<b>Software Systems Engineering (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Staff Saunders, R.
<b>645.767.81</b>	<b>System Conceptual Design (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Flanigan, D.

<b>645.767.82</b>	<b>System Conceptual Design (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Flanigan, D.
<b>645.768.81</b>	<b>System Design and Integration (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Biemer, S. Ahlbrand, S.
<b>645.768.82</b>	<b>System Design and Integration (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Saunders, J. Ahlbrand, S.
<b>645.769.81</b>	<b>System Test and Evaluation (Closed)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Ziarko, J. Krzystan, R. Sprigg, G.
<b>645.769.82</b>	<b>System Test and Evaluation (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Ziarko, J. Krzystan, R. Sprigg, G.

### *Southern MD Higher Education Center*

<b>645.764.46</b>	<b>Software Systems Engineering (Open)</b>	TU 4:30PM-7:35PM 05/29/2012 - 08/14/2012	Room:	\$3,175	Mosley, V. Pafford, M.
<b>645.767.46</b>	<b>System Conceptual Design (Open)</b>	TU 4:30PM-7:35PM 05/29/2012 - 08/14/2012	Room:	\$3,175	Russell, B. Keller, K.
<b>645.800.24</b>	<b>Systems Engineering Master's Project (Open)</b>	05/29/2012 - 08/20/2012	Room:	\$3,175	Utara, C.

## Technical Management

### *Applied Physics Laboratory*

<b>595.460.31</b>	<b>Introduction to Project Management (Open)</b>	TU 4:30PM-7:35PM 05/29/2012 - 08/14/2012	Room: K8	\$3,175	Tarchalski, S. Holub, K.
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**595.464.31 Project Planning and Control (Open)**

M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: K8 \$3,175 Pardoe, C.  
Devereux, W.

**595.466.31 Financial and Contract Management (Open)**

TH 4:30PM-7:35PM 05/31/2012 - 08/16/2012 Room: K8 \$3,175 Langhauser, N.

***Dorsey Center*****595.464.91 Project Planning and Control (Open)**

TU 4:30PM-7:35PM 05/29/2012 - 08/14/2012 Room: D211 \$3,175 McLoughlin, M.  
Cormier, E.

***Online*****595.461.81 Technical Group Management (Closed)**

05/29/2012 - 08/20/2012 Room: \$3,175 Fletcher, L.  
Hestnes, D.

**595.461.82 Technical Group Management (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Bjerkaas, A.  
Battista, C.  
Fletcher, L.

**595.464.81 Project Planning and Control (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Liggett, W.  
Shinn, S.

**595.465.81 Communications in Technical Organizations (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Fletcher, L.  
Bjerkaas, A.

**595.465.82 Communications in Technical Organizations (Open)**

05/29/2012 - 08/20/2012 Room: \$3,175 Horne-Jahrling, C.  
Fletcher, L.  
Tuck, M.

**595.466.81 Financial and Contract Management (Open)**  
 05/29/2012 - 08/20/2012 Room: \$3,175 Wyant, R.

**595.466.82 Financial and Contract Management (Open)**  
 05/29/2012 - 08/20/2012 Room: \$3,175 Wyant, R.

**595.762.81 Management of Technical Organizations (Open)**  
 05/29/2012 - 08/20/2012 Room: \$3,175 Harris, A.  
 Suter, J.

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**595.464.46 Project Planning and Control (Open)**  
 TH 4:30PM-7:35PM 05/31/2012 - 08/16/2012 Room: \$3,175 Cormier, E.  
 McLoughlin, M.

**595.766.46 Advanced Technology (Open)**  
 M 4:30PM-7:35PM 06/04/2012 - 08/20/2012 Room: \$3,175 Suter, J.