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<tbody>
<tr>
<td>01</td>
<td>Overview</td>
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<tr>
<td>02</td>
<td>Prepare</td>
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<td>03</td>
<td>Organize</td>
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<td>04</td>
<td>Submit</td>
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Purpose of the Plan of Study

• The Plan of Study is a unique and useful tool for graduate students.
• The Plan of Study allows a student to plan all of the courses needed to fulfill the degree requirements.
• A Plan of Study can also be a helpful way to determine how to fit in additional activities or classes students may wish to participate in.

What is a Plan of Study

• The Plan of Study is a document where you specify the courses you have taken plus the courses that you intend to take, that together will help you complete your degree.
• The Graduate School approved Plan of Study serves as a “contract” between you and the university about what courses you intend to take to obtain your degree.
PLAN OF STUDY

Prepare
Organize
Submit
TIMELINE

• MEng CS Students should submit their Plan of Study prior to the last semester of study in the program.
• Accelerated students should submit their Plan of Study in their first semester in the program.
• International Students in F-1 status must have departmental approved Plan of Study prior to applying for Curricular Practical Training (CPT).

PROGRAM DOCUMENTS

• MEng CS Guide is an overview of the program and provides tips for choosing your courses and planning your degree. You can use this document to guide your course selection.
• MEng Concentration Guide provides the list of our concentrations and anticipated term offerings and modality of courses in each concentration.
• Design Your Degree Worksheet to help you plan your MEng CS Plan of Study.
• MEng CS Plan of Study can be found in the Forms section of CS – Graduate Programs.
MEng CS Degree Requirements

DEGREE REQUIREMENTS

- Completion of 30 credit hours of coursework = 10 courses.
- Students must maintain a 3.0 GPA or better on the Plan of Study course work.
- Students must maintain an overall CGPA of 3.0 on ALL courses.
- All courses on the approved Plan of Study, must be completed with a grade of “C-” or better.
- Transfer credits must follow the rules outlined on the CS Administrivia page. All transfer credits must have earned grades of “B” or better.

COURSE REQUIREMENTS

- CS5024: Ethics & Professionalism in CS
- CS5040: Intermediate Data Structures*
- CS5934: Capstone Design
- Three courses in one Concentration:
  - Software Development & Applications
  - Data Analytics & Artificial Intelligence
  - Computer Security
  - Human-Computer Interaction
- Four or Five elective courses (this could include up to 2 courses at 4000 level and one cognate course), depending upon if you were waived for CS5040.

*Can be waived if an equivalent course has been completed
REPEATING COURSES

• All courses on the approved Plan of Study, must be completed with a grade of “C-” or better.

• Students are required to repeat any courses on an approved Plan of Study in which a grade below “C-” has been earned.

• After the course has been repeated, the grade for the first enrollment will be Repeat Graduate (RG).

• Both courses must be listed on the Plan of Study.

GPA

• Only the grade earned for the final enrollment of a Repeat Course will receive a letter grade and be calculated in the GPA.

• Students must obtain a 3.0 GPA, both overall and for courses on the Plan of Study.

• Grades in all courses are calculated into the overall GPA on the transcript.
MEng CS Degree CONCENTRATIONS

Software Development & Applications
- Web Application Development
- Mobile Application Development
- Software Engineering
- Software Design and Quality
- User Interface Software

Computer Security
- Fundamentals of Info Security
- Network Architecture and Protocols I
- Network Security
- System and Software Security

Data Analytics & Artificial Intelligence
- Data Analytics I
- Data Analytics II
- Social Media Analytics
- Introduction to Artificial Intelligence
- Introduction to Deep Learning
- Advanced Machine Learning
- Introduction to Urban Computing

Human-Computer Interaction*
- Usability Engineering
- Models and Theories of HCI
- Social Computing and CSCW
- Virtual Environments
- Information Visualization
- User Interface Software

*ONLY available at the Blacksburg campus
OFFERED FALL/SPRING

• CS5024: Ethics and Professionalism in CS
• CS5040: Intermediate Data Structures
• CS5525: Data Analytics I
• CS5704: Software Engineering
• CS5560: Fundamentals of Info Security
• CS5934: Capstone Project

COURSE OFFERINGS

• Most courses are offered on a regular schedule, either in the fall or spring semesters. There are also courses offered in the summer sessions.
• Course offerings are not the same in Blacksburg and Northern Virginia. You must check the Virginia Tech Timetable of Classes for each campus to see available course offerings for your campus.
• Course Overlap – Be aware of the courses which have restrictions due to significant overlap.

COURSE OFFERING LINKS

• Computer Science Graduate Courses
• Approved Cognate Courses
• Approved 4000 level courses
• Course Overlap
DESIGN YOUR DEGREE

- Complete Design your Degree Worksheet
  Fill in all classes you have taken
- Review Concentration Guide, MEng CS Guide, VT Timetable of Classes & CS Classes
  Enter courses you plan to take
- Review program requirements
- Review Concentration requirements
- Double check the worksheet
- If needed, schedule an appointment with your academic advisor for questions related to course selection and degree planning

MEEng CS PLAN OF STUDY

- All courses must have a grade of C- or better
- You must maintain a GPA of 3.0
- There can be only 10 courses on a MEng CS Plan of Study, unless you are attending an internship, CPT, then you must list GRAD5944. You can take more courses in the program, but you can only list 10 courses on the POS.
- Transfer/Double-counted UG/G courses must be listed in the Transfer Courses section
- Courses can only be listed ONCE on a POS
Enter personal info

- Enter Last/Family Name
- Enter First/Given Name
- Enter Estimated Graduation Term (Fall/Spring/Summer and Year)
- Enter Last 4 of VT ID #
- Enter VT Email Address
- Choose Campus
- Check if you are an Accelerated UG/G Student
**ENTER MEng REQUIREMENTS**

- Enter MEng Requirements
  - Check CS5040 Waived at admission if appropriate
  - You can take CS5040 for credit even if it was waived
- Enter Semester (Fall/Spring/Summer)
- Enter Calendar Year course was taken or you intend to take
- Enter Credits for course

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### MEng Requirements

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Semester</th>
<th>Year</th>
<th>Credits</th>
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<tr>
<td>WS</td>
<td>Waived at admission</td>
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<tr>
<td>CS5040</td>
<td>Intermediate Data Structures*</td>
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<td>You can take CS5040 for credit even if it was waived</td>
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<td>Approved waiver request</td>
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*CS 5040 requirement can be waived by departmental approval (to be replaced by another course at the 5000 or 6000-level), if an equivalent course has been completed previously.*

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<th>Course Number</th>
<th>Course Name</th>
<th>Semester</th>
<th>Year</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS5024</td>
<td>Ethics and Professionalism in CS</td>
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<td></td>
</tr>
<tr>
<td>CS5934</td>
<td>Capstone Project</td>
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**ENTER CONCENTRATION COURSES**

- Enter Concentration Area
- Enter Course Number
- Enter Course Name
- Enter Semester (Fall/Spring/Summer)
- Enter Calendar Year course was taken or you intend to take
- Enter credits for course
CS Courses at 5000 level and above. Excluding CS 5894, 5904, 5944, 5994, and 7994.
List courses in chronological order by term.

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<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Semester</th>
<th>Year</th>
<th>Credits</th>
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ENTER 5000 LEVEL COURSES

- Enter Course Number
- Enter Course Name
- Enter Semester (Fall/Spring/Summer)
- Enter Calendar Year course was taken or you intend to take
- Enter Credits for course
**ENTER 4000 LEVEL COURSES**

- Maximum of six credits at the 4000 level
- Enter Course Number
- Enter Course Name
- Enter Semester (Fall/Spring/Summer)
- Enter Calendar Year course was taken or you intend to take
- Enter Credits for course
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Semester</th>
<th>Year</th>
<th>Credits</th>
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**ENTER APPROVED COGNATE COURSE**

- Maximum of three credits
- Enter Course Number
- Enter Course Name
- Enter Semester (Fall/Spring/Summer)
- Enter Calendar Year course was taken or you intend to take
- Enter Credits for course
**Approvals:**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
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<tbody>
<tr>
<td>Student</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Program Director</td>
<td>Dr. Hooshangi</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ENTER NAME, SIGN AND DATE**

- Enter Name
- Sign Plan of Study
- Enter Date
PLAN OF STUDY - Review

- Review Plan of Study for errors
- Ensure all information is correct
- All Transfer & UG/G courses should ONLY be listed in Transfer section
- There should only be 10 courses on POS
- If you are pursuing a CPT/Internship then GRAD5944 will be the 11th course on your Plan of Study. You will be required to have a departmental approved Plan of Study in order to apply for CPT/Internship.

SUBMIT

- Submit the Plan of Study to the Computer Science Graduate Program Form Submission Portal
- The Plan of Study can take two to four weeks to receive Graduate School Approval
- Please plan accordingly
- The Graduate School will not expedite a Plan of Study or Student Form.
QUESTIONS:

What if I change my courses after submitting the Plan of Study?

You must submit a Request for Plan of Study Changes form if you change the courses toward your degree. Please make sure to submit forms in a timely manner. The Graduate School does not expedite forms.

DROP-IN ADVISING:

• Drop-in advising with Dr. Hooshangi
Thank you!

Samantha Pipkin, Program Coordinator
samanthap@vt.edu