**CMSC 389B**  
Special Topics in Computer Science; When Computers Meet Biology  
Credits: 1  
Grading Method: Regular, Pass-Fail, Audit  
*Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.*  
Prerequisite: CMSC216 and CMSC250.  
0101 Eytan Ruppin, Mihai Pop  
MTuWThF 11:00am - 11:50am  
Seats (Total: 60, Open: 0, Waitlist: 0)  
CSI 2117

**CMSC 389J**  
Special Topics in Computer Science; Introduction to Advanced Javascript  
Credits: 1  
Grading Method: Regular, Pass-Fail, Audit  
*Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.*  
Prerequisite: CMSC216 and CMSC250. Credit only granted for CMSC389N or CMSC389J.  
0101 Nelson Padua-Perez  
MTuWThF 9:00am - 9:50am  
Seats (Total: 92, Open: 0, Waitlist: 0)  
CSI 1115

**CMSC 389P**  
Special Topics in Computer Science; Introduction to PHP, MySQL, and Apache  
Credits: 1  
Grading Method: Regular  
*Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.*  
Prerequisite: CMSC216 and CMSC250. Credit only granted for CMSC389N or CMSC389P.  
0101 Nelson Padua-Perez  
MTuWThF 10:00am - 10:50am  
Seats (Total: 92, Open: 0, Waitlist: 0)  
CSI 1115

**CMSC 389T**  
Special Topics in Computer Science; Advanced Discrete Structures  
Credits: 1  
Grading Method: Regular  
*Seminar courses that allow students to pursue new and emerging areas of Computer Science; course may be used as electives for the undergraduate degree and minor.*
Prerequisite: CMSC216 and CMSC250.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grading Method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMSC499A</td>
<td>Independent Undergraduate Research</td>
<td>1-3</td>
<td>Regular, Pass-Fail, Audit</td>
<td>Students are provided with an opportunity to participate in a computer science research project under the guidance of a faculty advisor. Format varies. Students and supervising faculty member will agree to a research plan which must be approved by the department. As part of each research plan, students should produce a final paper delineating their contribution to the field.</td>
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<tr>
<td>CMSC798</td>
<td>Graduate Seminar in Computer Science</td>
<td>1</td>
<td>Regular</td>
<td>Contact department for information to register for this course.</td>
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<tr>
<td>CMSC898</td>
<td>Pre-Candidacy Research</td>
<td>1</td>
<td>Regular</td>
<td>Prerequisite: permission of instructor. Advanced topics selected by the faculty from the literature of applications of computer science to suit the interest and background of students. May be repeated for credit.</td>
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<tr>
<td>CMSC899</td>
<td>Doctoral Dissertation Research</td>
<td>1</td>
<td>Regular</td>
<td>Contact department for information to register for this course.</td>
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