**Mathematics**

**MATH 220  Calculus  credit: 5 hours.**

First course in calculus and analytic geometry; basic techniques of differentiation and integration with applications including curve sketching; antidifferentiation, the Riemann integral, fundamental theorem, exponential and trigonometric functions. Credit is not given for both MATH 220 and either MATH 221 or MATH 234. Prerequisite: An adequate ALEKS placement score as described at [http://math.illinois.edu/ALEKS/](http://math.illinois.edu/ALEKS/), demonstrating knowledge of topics of MATH 115. Students with previous calculus experience should consider MATH 221.

Students must register for one discussion and one lecture section beginning with the same letter in Fall and Spring terms only. Engineering students must obtain a dean’s approval to drop this course after the second week of instruction.

This course satisfies the General Education Criteria for a: Quantitative Reasoning I

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>30963</td>
<td>Lecture-Discussion</td>
<td>C1</td>
<td>10:00 AM - 11:40 AM</td>
<td>MTWRF</td>
<td>447 - Altgeld Hall</td>
<td>Etedadaliabadi, M</td>
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</tbody>
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Quantitative Reasoning I course.
Meets 12-Jun-17 - 03-Aug-17.
An ALEKS PPL math placement score of at least 80%, with a test date of February 13, 2017 or later, is required to be able to register for this course. There may be a 1 business day delay after earning the score before Self-Service allows registration. Those who have passed ALEKS PPL close to June 12 may wish to email mathadvising@illinois.edu with name, netid, and UIN to request an override to allow registration sooner. For more ALEKS PPL information please see [http://math.illinois.edu/ALEKS](http://math.illinois.edu/ALEKS) for more information.

| 36762 | Lecture-Discussion | E1 | 01:00 PM - 02:40 PM | MTWRF  | 141 - Altgeld Hall | Ahmed, I         |

Quantitative Reasoning I course.
Meets 12-Jun-17 - 03-Aug-17.
An ALEKS PPL math placement score of at least 80%, with a test date of February 13, 2017 or later, is required to be able to register for this course. There may be a 1 business day delay after earning the score before Self-Service allows registration. Those who have passed ALEKS PPL close to June 12 may wish to email mathadvising@illinois.edu with name, netid, and UIN to request an override to allow registration sooner. For more ALEKS PPL information please see [http://math.illinois.edu/ALEKS](http://math.illinois.edu/ALEKS) for more information.

| 38306 | Online | ONL | ARRANGED - | - | Carpenter, B |

Quantitative Reasoning I course.
Meets 12-Jun-17 - 03-Aug-17.
Departmental Approval Required

This section is restricted to students who will not be on campus during the summer semester, need the course for their program and are unable to take the asynchronous online section for financial reasons. This section has an online format and requires access to Mathematica-based courseware. Students will receive information about how to sign up for an account in Mathable ($99) after enrollment in the course. Must have a recent passing ALEKS score in order to be able to register. Please see [http://math.illinois.edu/ALEKS](http://math.illinois.edu/ALEKS). After the ALEKS prerequisite has been met, please e-mail mathadvising@illinois.edu with name, NetID, UIN, and desired math course to get approval to register. Please email <netmath@illinois.edu> for permission to register in this section. This course contains multiple paper-based exams that must be taken with an approved proctor. Exams may be taken on campus with NetMath proctoring; for off-campus options see [https://netmath.illinois.edu/offcampus](https://netmath.illinois.edu/offcampus). Prerequisite: Math 112 or equivalent.