Mathematics

MATH 444  Elementary Real Analysis  credit: 3 OR 4 hours.

Careful treatment of the theoretical aspects of the calculus of functions of a real variable intended for those who do not plan to take graduate courses in Mathematics. Topics include the real number system, limits, continuity, derivatives, and the Riemann integral. 3 or 4 undergraduate hours. 3 or 4 graduate hours. Credit is not given for both MATH 444 and either Math 424 or MATH 447. 4 hours of credit requires approval of the instructor and department with completion of additional work of substance. Prerequisite: MATH 241; MATH 347 or MATH 348, or equivalent.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>64382</td>
<td>Lecture-Discussion</td>
<td>B13</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>347 - Altgeld Hall</td>
<td>Oikhberg, T</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
During early registration, Math 444 is restricted to majors specifically requiring the course. Restrictions will be removed during the business day on November 13, 2018. Students not already in those majors are welcome to register as soon as the restrictions have been removed.

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<td>B14</td>
<td>09:00 AM - 09:50 AM</td>
<td>MWF</td>
<td>347 - Altgeld Hall</td>
<td>Oikhberg, T</td>
</tr>
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</table>

Credit Hours: 4 hours
Departmental Approval Required
Not intended for Undergrad - Urbana-Champaign.
Graduate students requesting the 4 credit hour section must first register for the 3 hour section. If the instructor is willing to offer extra work to graduate students for the 4-hour section, students can get an approval form from 313 Altgeld Hall between the first day of the semester and the 8th week of the semester.

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<tbody>
<tr>
<td>38024</td>
<td>Lecture-Discussion</td>
<td>D13</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>241 - Altgeld Hall</td>
<td>Oikhberg, T</td>
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<tr>
<td>38025</td>
<td>Lecture-Discussion</td>
<td>D14</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>241 - Altgeld Hall</td>
<td>Oikhberg, T</td>
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<tr>
<td>38021</td>
<td>Lecture-Discussion</td>
<td>P13</td>
<td>11:00 AM - 12:20 PM</td>
<td>TR</td>
<td>143 - Armory</td>
<td>Hinkkanen, A</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
During early registration, Math 444 is restricted to majors specifically requiring the course. Restrictions will be removed during the business day on November 13, 2018. Students not already in those majors are welcome to register as soon as the restrictions have been removed.
### Course Information

**Course Code:** 38022  
**Lecture-Discussion:** P14  
**Time:** 11:00 AM - 12:20 PM  
**Days:** TR  
**Location:** 143 - Armory  
**Instructor:** Hinkkanen, A

**Credit Hours:** 4 hours  
**Instructor Approval Required**  
**Not intended for Undergrad - Urbana-Champaign.**  
Graduate students requesting the 4 credit hour section must first register for the 3 hour section. If the instructor is willing to offer extra work to graduate students for the 4-hour section, students can get an approval form from 313 Altgeld Hall between the first day of the semester and the 8th week of the semester.

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**Course Code:** 58909  
**Lecture-Discussion:** X13  
**Time:** 12:00 PM - 12:50 PM  
**Days:** MWF  
**Location:** 243 - Altgeld Hall  
**Instructor:** Leisman, K

**Credit Hours:** 3 hours  
During early registration, Math 444 is restricted to majors specifically requiring the course. Restrictions will be removed during the business day on November 13, 2018. Students not already in those majors are welcome to register as soon as the restrictions have been removed.

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**Course Code:** 58910  
**Lecture-Discussion:** X14  
**Time:** 12:00 PM - 12:50 PM  
**Days:** MWF  
**Location:** 243 - Altgeld Hall  
**Instructor:** Leisman, K

**Credit Hours:** 4 hours  
**Departmental Approval Required**  
**Not intended for Undergrad - Urbana-Champaign.**  
Graduate students requesting the 4 credit hour section must first register for the 3 hour section. If the instructor is willing to offer extra work to graduate students for the 4-hour section, students can get an approval form from 313 Altgeld Hall between the first day of the semester and the 8th week of the semester.