PRECALC & CALC:

Transition Courses at UA Math
MATH 120R – UA Precalculus

- 4 unit course (meets 4 times weekly for 50 minutes)
- Up to 35 students per section
- Graphic, non-symbolic calculator / Traditional text, currently
- Uniform syllabus (math.arizona.edu/~precalc)
- Some web-based, graded homework (1/8 of grade)
- Uniform final
- Includes the concept of average rate of change, difference quotients, interpretations
- This year:
  - supplemental instruction problem-solving sessions (engineers)
  - more cognitively demanding problems
  - some peer-collaborative elements
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<tr>
<th>MATH 120R–UA Precalc</th>
<th>MATH 124–UA Calculus</th>
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<tbody>
<tr>
<td><strong>4 unit course</strong></td>
<td><strong>5 unit course</strong></td>
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<tr>
<td>Up to 35 students per section</td>
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<td><em>Traditional text, currently</em></td>
<td><em>Reform text</em></td>
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<tr>
<td>Uniform syllabus</td>
<td>Uniform syllabus</td>
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<td>Some web-based, graded homework (most instructors)</td>
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<td><em>Uniform final (skills)</em></td>
<td><em>Uniform final (concepts)</em></td>
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<td>Includes the concept of average rate of change</td>
<td>Includes differential and integral calculus</td>
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<td>This year:</td>
<td>Next year:</td>
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<td>• supplemental instruction problem-solving sessions (engineers)</td>
<td>• supplemental instruction problem-solving sessions (engineers?)</td>
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<td>• more cognitively demanding problems</td>
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<td>• some peer-collaborative elements</td>
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MATH 124 – UA Calculus 1

• 5 unit course (meets 5 times weekly for 50 minutes)
• Up to 35 students per section
• Graphic, non-symbolic calculator / Reform text
• Uniform syllabus (math.arizona.edu/~calc)
• Skills prelim
• Some web-based, graded homework (most instructors)
• Online text
• Uniform final
• Includes some integral calculus
• Next year:
  • supplemental instruction problem-solving sessions (engineers?)
  • cognitively demanding problems
  • peer-collaborative elements
Links and resources

- [math.arizona.edu/~precalc](http://math.arizona.edu/~precalc)
  - UA precalculus final review package
  - UA precalc syllabus, and other course content
- [math.arizona.edu/~calc](http://math.arizona.edu/~calc)
  - UA calculus final review package
  - UA calc syllabus, and other course content
- [math.lsa.umich.edu/courses/105/](http://math.lsa.umich.edu/courses/105/)
  - MI precalculus exams (2 midterms/final per year) with solutions
  - MI precalc syllabus, philosophy, etc.
- [math.lsa.umich.edu/courses/115/](http://math.lsa.umich.edu/courses/115/)
  - MI calculus exams (2 midterms/final per year) with solutions
  - MI calc syllabus, philosophy, etc.
- [prep.math.lsa.umich.edu/pmc/](http://prep.math.lsa.umich.edu/pmc/)
  - online preparation for calc review (a-la ALEKS)—free,