Advisement of Math Majors

Fall 2006
General recommendations

- Talk to your advisees about their plans for after graduation
- Take notes and keep them on file (electronic or paper) for future reference; UD Notes (more later) can serve this purpose well
- Make a tentative four-year plan for your advisees during their first visit – it helps you and them, and simplifies the advisement process (future course selection, etc.)
- Keep advisement resources within easy reach during their visits
### 2008–2009

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tr>
<td><strong>Course</strong></td>
<td><strong>Group</strong></td>
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<tr>
<td>EDUC 420</td>
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<tr>
<td>Breadth</td>
<td>C</td>
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<tr>
<td>PHYS 207</td>
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<tr>
<td>MATH 451</td>
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<tr>
<td>Breadth</td>
<td>A</td>
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<td>Elective</td>
<td>3</td>
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<td><strong>Total</strong></td>
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**Note 1:** Michele plans to minor in Spanish Studies and to do study abroad.

### 2009–2010

<table>
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<th>Fall Semester</th>
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<td><strong>Course</strong></td>
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<tr>
<td>MATH 379</td>
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<td>MATH 380</td>
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<td>MATH 540</td>
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<td>MATH 518</td>
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<td><strong>Total</strong></td>
<td>16</td>
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Tips for all math majors

- University requirements are common to all 4 majors
- Breadth requirements are different for each major
- Some breadth (group) requirements can be satisfied by a MATH course: MATH 308 is in Group B, and Group D requirements are automatically satisfied by required courses
- Second writing requirement can be satisfied by a MATH course, if taken after 60 credits – typically junior or senior year
MATH 308 and 512 satisfy the College second writing requirement if taken after 60 credits.

All students entering in September 2005 or later must take at least 3 credits of [DLE](http://www.ugs.udel.edu/DLE/) – Discovery Learning Experience.

In making a four-year plan, pay special attention to prerequisites and time of offering for courses and their prerequisites.

The regular course offering of MATH classes is online at [www.math.udel.edu/programs/ugrad/courses/course_schedule.html](http://www.math.udel.edu/programs/ugrad/courses/course_schedule.html) – Course Schedule.

When discussing optional tracks, keep in mind student’s future plans.
Be aware and tell your advisees that only special sections of courses in the list approved for second writing requirement may be offered as a second writing course – the Registration Booklet will specifically identify those sections. Same for online registration.

Student must declare graduation date in advance – the Registrar’s Office uses this information, e.g. to tell A&S to do senior checkout for the student.

Transfer of credits is not the same as course equivalence. Students often think that receiving credit for a course taken elsewhere means that course replaces a UD course – not true! They need to request that specific courses be evaluated for equivalence.

Even then, fulfilling second writing requirement is not automatic.
Suggest majors to join the Math Club and make use of the Undergraduate Lounge in Ewing 336

Point out our web page on careers: Career Information for Math Students (www.math.udel.edu/programs/ugrad/info/career/)

Encourage students to visit the Department’s web site, and explore Resources for Current Students (www.math.udel.edu/current/current.html)
Resources for advising

- The Graduate and Undergraduate Catalog
- The online handbooks at Undergraduate Degree Handbooks (www.math.udel.edu/faculty_staff/advHandbook.htm)
- UD Notes that you can find a link to from Undergraduate advising (www.math.udel.edu/faculty_staff/ugadvList.html) – you will need to login with your udel login name and password
- The Academic Progress Report of UD Notes is useful
UDSIS ([www.udel.edu/UDSIS](http://www.udel.edu/UDSIS)) – you will need to login with your udel login name and password

Colleagues and the director of undergraduate studies

For questions related to actuarial careers, contact our colleague, Dr. David Edwards
Students often ask about senior check out. This is done automatically for students in Arts & Sciences. You can point them to the web site University Advisement Center Senior Checkout (www.udel.edu/advisement/senior.html)

You can quickly check a list of your advisees at our web page Math Major/Advisor List (www.math.udel.edu/php/deptapps/maj_adv.php?srt=3) or on UD Notes

For honors students, check Awards and Honors (http://honors.udel.edu/awards.html)
BA in Math Education (XMS)

All requirements (except EDUC 400 and MATH 382) must be satisfied by the start of the Spring semester of the senior year.

MATH 279 should be taken in the Spring of the freshman year; MATH 518 is now offered in the Fall (changed from Spring).

MATH 379/380 should be taken together in the Fall of the senior year; MATH 380 is a capstone course for this major.

Passing score on Praxis I is required before student teaching (EDUC 400).
EDUC 419, a required course, satisfies the University multi-cultural requirement

MATH 308, required by the major, is a Group B course

MATH 308 satisfies the College second writing requirement, as long as it is taken in the Spring of the junior year (after 60 credits, offered in Spring semester only)

EDUC 413 and 419 have clinical components

EDUC 400 – Student Teaching satisfies the DLE (Discovery Learning Experience)
Emphasize to students the need to pay attention to time of offering for required courses as well as their prerequisites

**Note 1:** EDUC 430 has been eliminated; its content has been incorporated into EDUC 413 which is now a 4-credit course

**Note 2:** The prerequisites for MATH 245 have changed – MATH 242 rather than MATH 243 is required

Tell the students about the departmental web page, especially the page for current math majors: [Resources for Majors](http://www.math.udel.edu/current/majorList.html)

Another useful web page is [UD Teacher Education](http://www.udel.edu/teachered/)
The breadth (group) requirements are more than for all other majors.

In selection of courses in Groups A, B and C pay attention to the need to have courses in at least 2 different units for each group.

At least 79 credits in other than MATH classes are required for the BA.

Emphasize to students the need to pay attention to time of offering for required courses as well as their prerequisites.

*Note:* The prerequisites for MATH 245 have changed – MATH 242 rather than MATH 243 is required.
BS in Mathematics (BSMS)

MATH 512, a required course, satisfies the College second writing requirement, if taken after 60 credits – it’s a capstone course for this major, offered in the Fall semester only.

In suggesting 3 out of 6 courses, take into consideration the student’s future plans to offer your best advice.

Discuss the possibilities for graduate studies with BS majors.

Note: The prerequisites for MATH 245 have changed – MATH 242 rather than MATH 243 is required.
Besides the required courses, at least 39 out of the 124 required credits must be in MATH and ECON courses at or above the 300 level.

In selecting among the various options, attention should be paid to the student’s future plans.

Students with an interest in an actuarial career usually choose this major. Information on actuarial careers, and suggestions for courses to take are online at [Actuarial Career Information](http://www.math.udel.edu/programs/ugrad/info/career/actuarial.html) – this should be kept in mind when suggesting optional course choices to advisees.
Note: The prerequisites for MATH 245 have changed – MATH 242 rather than MATH 243 is required.

Although ECON 302 is listed as a prerequisite for ECON 303, this will be waived (unfortunately on request for each student) by the Department of Economics.

MATH 530/ECON 530 is a capstone course for this major.

Emphasize to students the need to pay attention to time of offering for required courses as well as their prerequisites.

Suggest contacting the Student Economic Association – see Student Organizations | Alfred Lerner College of Business & Economics (www.lerner.udel.edu/advising/studentorg.html)
Student wants to drop or change status in a class after the deadline for changes without academic penalty: Only the Dean’s Office can authorize it. Their policies are very strict – only in very special circumstances it will be allowed.

Student shows evidence of need for counseling: Assess the situation and act accordingly. This may include calling the Center for Counseling and Student Development (x-2141) for appropriate action.
Some useful tools

- University Advisement Center - Course Lists
  (www.udel.edu/advisement/courses.html)

- University Advisement Center Student Information
  (www.udel.edu/advisement/studentinformation.html)

- University Advisement Center - Faculty Tools
  (www.udel.edu/advisement/facultytools.html)

- Registration: Office of the University Registrar
  (www.udel.edu/registrar/index.html)