

MATHEMATICAL AND COMPUTER SCIENCES DEPARTMENT

FIRST YEAR STUDENT ADVISING SHEET

MAJOR: **Mathematics (Optional Concentrations: Pure Mathematics, Applied Mathematics, Secondary Education)**

COURSES REQUIRED BY THE MAJOR

First Semester

- MA121 *Calculus I* (see note 1a)
- CS121 *Computer Science I* (see note 2)
- ED105 *Early Adolescent/Adolescent Development and Learning* (for Secondary Education concentrators—see note 3)

Second Semester

- MA122 *Calculus II* (see note 1b)
- ED 151 *Early Adolescent/Adolescent Cognition* (for Secondary Education concentrators—see note 3)

NOTES:

- a. A student who achieved a score of 4 or better on the College Board Advanced Placement Calculus AB Examination should be placed in MA 122 *Calculus II* in the first semester and MA 222 *Calculus III* in the second semester. Credit will be given for MA121 *Calculus I*.
 - b. A student who achieved a score of 4 or better on the College Board Advanced Placement Calculus BC Examination should take MA 222 *Calculus III* in the first semester and consider seeking permission to take MA201 *Linear Algebra* in the second semester see note #3 below). Credit will be given for both Ma 121 and for MA 122.
2. CS121 *Computer Science I* is required of all Mathematics majors, and should be taken during the first year.
3. Secondary Education concentrators should take ED105 and ED151 in the first year.
4. Physics 200 *College Physics I* is required for the Secondary Education and Applied Mathematics Concentrations, and for these students Physics 200 will fulfill one of the two courses required for Core in Natural and Physical Sciences. **However, Mathematics majors are strongly advised not to take Physics 200 during the first year.**
5. Actuarial Science is a separate major with a separate advising sheet; consult that sheet for required first year courses for the Actuarial Science major.
6. Students considering a Mathematics major (any concentration) should **not** take MA 105 *Mathematics for Liberal Studies* or MA 117 *Concepts of Calculus*.

Students interested in Mathematical Sciences should contact Dr. James Hughes, Chair of Mathematical and Computer Sciences, by e-mail at hughesjr@etown.edu, or by telephone at extension 1334.