

Notes on Advising for the Math and CS Dept

revised Feb, 2012

General Education

English composition (6)

Literature (3)

Mathematics (6)

Physical Education (1)

Freshman Seminar (2)

Foreign Language (6)

Western Heritage (6)

Natural Sciences (8)

Arts (3)

Humanities (3)

Social Sciences (9)

Cultural Activities

(from catalog)

English Composition (6 hrs)

- Students have to be enrolled in Composition every semester until they pass
- ENG1030 is the accelerated class – C or better gets the student all 6 hrs of required credit
- Dept placement decision is final

Literature (3 hrs)

- According to the catalog, lit classes are ENG 2120-3260
 - but I have never seen us offer 2000 level lit classes
 - however, when dealing with a transfer student, look for a 2000 level course from a community college
- Foreign Language lit classes count as well

Mathematics (6 hrs)

- Placement test determines level
 - we usually aren't opposed to students backing down a level
 - watch out for students who transfer in a math class and don't take the placement test
- Students coming out of 0900 should probably go into 1000
 - if they did really well in 0900, they can go into 1010 instead (teacher recommendation)

Mathematics cont.

- Students who **place** into 1150 and get a C or better, get credit for 1010
- Students **placing** into 1210 can get credit for 1110
- Students **placing** into 2040 can get credit for 1110 and 1210
- Students have to take the placement test to do this (you can't just sneak in and take a class and expect the extra credit)
 - you also don't get the extra credit if you transfer in one of these courses

Mathematics cont.

- Students can't get credit for both 1000 and 1010
 - however, students failing 1010 can repeat 1000 instead and the grade in 1000 will replace the grade in 1010
- Students can't use 1000 or 1010 along with 1110 to fulfill the general education requirement
- Students can't get credit for lower level classes after taking higher level classes (MTH 1020 and 1180 are exceptions)
 - for example, a student can't get credit for mth1010 after passing 1210

Physical Education (1 hr)

- Supposed to take activity courses
- Usually two .5 hr classes
- The course in Lifesaving counts
- Officiating does not

Freshman Seminar (2 hrs)

- Two one semester hour classes
- If a student transfers in 30 hrs, they do not have to take this
 - but a student who comes to the college fresh out of high school with 30 hrs of dual enrollment credit does have to take seminar
- Try to put them in a class taught by someone from their dept of interest

Foreign Language (6 hrs)

- Placement test
 - their placement decision is final
 - but can always take class in which you have no experience
- 1030 classes get you 6 hrs of credit (with C or better)
- Choices – Spanish, French, and German
- Have to take whole year of one language
 - can't count SPA 1010 and FRE 1010

Western Heritage (6 hrs)

- Choices are HIS 1010/1020, POL 1030/1040, PHI 2050/2060, ENG 3050/3060, or VPR 1010/1020
 - VPR has not been offered much in the past, but that may change
- The rule is – you have to take a first half and a second half course
 - doesn't matter what order, or which classes ...
 - POL 1040 followed by HIS 1010 is OK

Natural Sciences (8 hrs)

- Can be any two classes with associated lab
- Some classes have the lab built in, but most have a separate lab
 - often a 4 hr class includes the lab (but not always)
 - PHY 3010/3020 are 4 hr classes, not including lab
 - students take the 2010/2020 labs (for a total of 5 hrs)
 - Note: next year (fall 2010, spring 2011) when Lucian teaches, there will be a lab specifically for his class
 - Sometimes transfer classes w/lab will show as 4 hrs
- Some science classes have math prereqs

Note: SE & CS require 3000 level physics

Arts (3 hrs)

- One 3 hr course, or some combination of 1 and 2 hr courses
- Note that some classes offered by VPAR Dept can be taken more than once for credit
- Art, music, theater, and dance are the choices
- Participating in a theater production can count for as much as three hours of credit

Humanities (3 hrs)

- Another course from history, visual and performing arts, literature, philosophy, foreign language, religion
- PHI 1030 Logic is a good choice for our majors

Social Sciences (9 hrs)

- Students must do 3 hrs of coursework in each of three separate areas
- Choices – psychology, sociology, political science, economics, cultural geography (not physical geography), and anthropology (when we have it, or when a student transfers it in)
- Students should choose from 1000 and 2000 level courses – not upper division

Cultural Activities

- Students need to attend eight cultural activities during their four years at Wise (officially four as freshmen and four as juniors)
 - transfer students need to attend four activities
- Students have to sign in and sign out of the activity (be aware of honor code violations)
- Note that senior seminar presentations in disciplines other than your own, count
- Show up on transcript as GNE 1010/3010

Final Note on Gen Ed

- A course can not count for two different general education requirements
- However courses in a major or minor can count towards general education

Transfer Students

Look for GNE 2000 on transcripts

this means that they transferred in an approved 2-yr degree from the community college and their gen-ed requirements are complete, except for foreign language

note that if a student transfers in with something different than the “approved degree” or with no degree, each and every gen-ed requirement has to be evaluated

Transfer Students cont.

- Once a student is enrolled at Wise, they have to get permission from the Dean to take classes at another college, especially if they plan on transferring the classes back to Wise
 - An example would be a student who goes home for the summer and wants to take a class at a nearby community college and then transfer it back to Wise
 - I don't think the college has been enforcing this rule, but I always tell students to follow it

The Majors

Mathematics

Computer Science

Management Information Systems

Software Engineering

Quick Note on Course Schedules

For all majors, we have web pages that show the schedule for course offerings – fall, spring, every other year, etc.

Make sure students are aware of when courses are offered, especially senior level courses

Mathematics Major

- All math majors have to have a minor (often education)
- Need 12 hrs of elective classes beyond listed requirements
 - MTH 3100 Math Proofs not listed as requirement, but is required for most upper division courses (will count as one of their electives)
 - Any 3000-4000 CS class counts as a math elective

Mathematics Major cont.

- Courses not taught every year: MTH 3120, 3200 and 3380
- MTH 3010 – 3050 do not count toward the major in math
 - used by the Pre-K6 Liberal Arts and Sciences Major

Mathematics Major cont.

- Students planning on teaching high school have to take MTH 3120 Geometry and a computer programming course and are encouraged to take MTH 3200 Number Theory

Computer Science

- Students need to get into CSC1180 Computer Programming in C++ their first year (doesn't have to be their first semester)
 - Note: students who place lower than 1110 Precalculus I should consider holding off on 1180 (a suggestion) and certainly, no student placing into 0900 should be in a programming class (we need to examine prereqs)
- Try to put them in SWE 1790 Engineering Leadership
- Should consider senior courses in spring of junior year

Note: CSC1010 is a programming class for non CS/MIS/SE majors

Management Information Systems

- Split their time between computer science, business, and communications
- Again, if their math placement is low, hold off on putting them in 1180
- Material in 2009-2010 catalog is wrong – website is correct
- Note the two course concentration requirement in current catalog

Software Engineering

- Need to get into CSC1180 as quickly as possible
- Also, try to put them in SWE1790 Engineering Leadership
- Students need 16-18 hrs each semester in order to finish in 4 yrs (need 131 hrs total)
- Any student who doesn't place into Calculus might not be able to finish in 4 years, unless they go to summer school
- Students need to spread out gen-ed courses through whole four years so that required major courses can be taken – this is contrary to what is normally recommended

Miscellaneous

- 3-2 Pre-engineering program used to be listed in the Natural Sciences
- Cooperative Education and Internships
 - occasionally the DMME interns will ask for co-op credit (others could)
 - the hours only count toward graduation, not the major
 - students need a minimum number of hrs per week and need to have something to show for the semester

Minors

- Students majoring in Mathematics have to minor in another subject
- Minors are generally 18 hours – 6 hours lower division, 12 hours upper division
 - However, some departments require more hours (you have to check the catalog)
- Courses can not be counted for both a major and a minor or for two minors – a minor has to be a distinct set of classes (this might change)

Minors cont.

- Some departments have well defined minors
- For others, you just need the appropriate hours
- Note: you can minor in subjects for which we have no major (Physics, for example)

Double Majors

- It is up to each individual department whether or not a student can count a course for more than one major
 - In Math and CS, we let students count the same course for two majors
 - Some departments do not (check the catalog)
 - In these cases, students have to take extra hours to make up the difference
- Note: a CS major can get a second major in Mathematics with as few as 5 extra classes

The Degree

- For CS, MIS, and SE, the degree is always a BS
- For Mathematics, the degree can be either BA or BS, depending on the minor subject area or second major