Student:
PSU ID Number:
E-Mail:
Adviser:
Program Year:
Year Intending to Graduate:

MATHEMATICS (MTHBD)
Applied Mathematics Option
(B.S., 120 Credits)

I. GENERAL EDUCATION COMPONENTS
47 Credits

WRITING/SPEAKING (GWS) – 9 Credits
- ENGL 15 or ENGL 30 _____ (3)
- ENGL 202C _____ (3)
- CAS 100 _____ (3)

QUANTIFICATION (GQ) – 8 Credits
- §[E] MATH 140 _____ (4)
- §[E] MATH 141 _____ (4)

NATURAL SCIENCES (GN) – 9 Credits
Select 8 credits in one of the following sequences:
- a. BIOL 110 _____ (4)
  BIOL 220W _____ (4)
- b. CHEM 110 _____ (3)
  CHEM 111 _____ (1)
  CHEM 112 _____ (3)
  CHEM 113 _____ (1)
- c. PHYS 211 _____ (4)
  PHYS 212 _____ (4)
- d. PHYS 250 _____ (4)
  PHYS 251 _____ (4)

_____ _____ (1)

ARTS (GA) – 6 Credits
- _____ _____ (3)
- _____ _____ (3)

HUMANITIES (GH) – 6 Credits
- _____ _____ (3)
- _____ _____ (3)

SOCIAL & BEHAVIORAL SCIENCES (GS) – 6 Credits
- _____ _____ (3)
- _____ _____ (3)

HEALTH AND PHYSICAL ACTIVITY (GHA) – 3 Credits
- _____ _____ ( )
- _____ _____ ( )
- _____ _____ ( )

*United States Cultures (US) _____ _____ (3)
*International Cultures (IL) _____ _____ (3)
*These requirements may be fulfilled by courses that have been used to satisfy the GA, GH, or GS requirements.

II. FIRST YEAR SEMINAR / ELECTIVES
8 Credits

- PSU 007 _____ (1)
- _____ _____ ( )
- _____ _____ ( )
- _____ _____ ( )

III. REQUIREMENTS FOR THE MAJOR
29 Credits

- § CMPSC 121 _____ (3)
- § CMPSC 122 _____ (3)
- § MATH 220 _____ (2)
- § MATH 230 _____ (4)
- § MATH 251 _____ (4)
- § MATH 311W _____ (4)
- § MATH 312 _____ (3)
- § STAT 301 _____ (3)
- § STAT 401 _____ (3)

IV. OPTION REQUIREMENTS
36 Credits

Computer Science Courses – Select 6 credits from CMPSC 221 or higher, except CMPSC 360.
- § CMPSC _____ _____ (3)
- § CMPSC _____ _____ (3)

Pure Math Courses – Select 6 credits from the following:
- § MATH 421 _____ (3)
- § MATH 426 _____ (3)
- § MATH 427 _____ (3)
- § MATH 429 _____ (3)
- § MATH 435 _____ (3)
- § MATH 436 _____ (3)
- § MATH 465 _____ (3)

Applied Math Courses – Select 15 credits from the following:
- § MATH 310 _____ (3)
- § MATH 412 _____ (3)
- § MATH 449 _____ (3)
- § MATH 455 _____ (3)
- § MATH 456 _____ (3)
- § MATH 482 _____ (3)
- § STAT 414 _____ (3)
- § STAT 461 _____ (3)
- § STAT 462 _____ (3)
- § STAT 464 _____ (3)
- § STAT 466 _____ (3)

Supporting Courses & Related Areas – Select 9 credits from School-approved list.
- §_____ _____ (3)
- §_____ _____ (3)
- §_____ _____ (3)

Choices Include:
All 300- and 400-level courses in BIOL, CHEM, MATH, PHYS, and STAT, but no more than 3 credits of any 495 can be used as supporting courses.
CMPSC 102, CMPSC 221 and all 300- and 400-level CMPSC courses, with the exception of CMPSC 360.
ACCTG 221.
All 200- and above level courses in MIS.
All SCM courses, with the exception of SCM 200.
All 300- and 400-level courses in ECON and FIN.
BA 241 and BA 242.
All MGMT and MRKTG courses.

CODES:
§Grade of "C" or higher required.
[E] Required for entrance to major.

NOTES:
- In order to be eligible for entrance to the mathematics major, a student must have attained at least a 2.00 cumulative GPA and completed MATH 140 and 141 earning a grade of C or better in both courses.
- Students graduating from this major must achieve a minimum grade-point average of 2.00 and earn a grade of C or better in all 300- and 400-level courses within the Prescribed, Additional, and Supporting courses as specified in Senate Policy 82-44. If a student receives a grade below C, s/he must repeat that course or a School approved alternative and earn a grade of C or better.
- Students should inquire whether their supporting courses count toward a minor or a certificate.
- Courses with a US/IL designation may also be used to satisfy a GA/GH/GN requirement. A course with a US and IL designation may not be used to satisfy both US and IL courses. A student needs at least one course with the US designation and one course with the IL designation.
- A student must earn at least a total of 120 credits for graduation.

SCHEDULING PATTERNS:
Some courses are offered only in the fall or in the spring semester, and some upper-level courses are offered in alternate year pattern. **This scheduling pattern is tentative and subject to change.**
- *Every Fall* – MATH 312, MATH 455
- *Every Spring* – STAT 401
- *Fall of Even Years* – MATH 427, MATH 428, MATH 465, STAT 462
- *Spring of Odd Years* - MATH 421, MATH 436, MATH 449, STAT 461, one of either MATH 426 or MATH 497
- *Fall of Odd Years* - MATH 412, MATH 435, STAT 414
- *Spring of Even Years* – MATH 310, MATH 429, MATH 456, MATH 482, one of either STAT 464 or STAT 466

Last Updated 12/10/2012