

MATHEMATICAL SCIENCES MAJOR

Program Tracking Sheet

Effective for students entering AY 2022-2023

| | |
|----------|------------------------|
| Name: | Class Year: |
| Advisor: | 2 nd Major: |

NOTES: Minimum total academic credit = 15 units

Residency Req.: Min. of 8 units must be completed at WPI

HUMANITIES AND ARTS (6/3 units)

All 5 HUA courses must be completed before beginning the Inquiry Seminar or Practicum.

Depth Component
Students must complete at least three thematically-related courses prior to the culminating Inquiry Seminar or Practicum in the same thematic area. At least one of the three courses should be at the 2000-level or above.

| | Course | Term | Grade | Units |
|---|--------------------|------|-------|-------|
| 1 | | | | 1/3 |
| 2 | | | | 1/3 |
| 3 | | | | 1/3 |
| 4 | HU 3900 or HU 3910 | | | 1/3 |

Breadth Component
Students must take at least one course outside the grouping in which they complete their depth component. To identify breadth, courses are grouped in the following manner.

- i. art/art history, drama/theatre, and music (AR, EN/TH, MU);
- ii. foreign languages (AB, CN, EN, GN, SP);
- iii. literature and writing rhetoric (EN, WR, RH);
- iv. history and international studies (HI, HU, INTL);
- v. philosophy and religion (PY, RE).

Exception: May take all six courses in a foreign language

| | | | | |
|----------------------------|--|--|--|-----|
| | | | | 1/3 |
| Humanities Elective | | | | |
| 6 | | | | 1/3 |

PHYSICAL EDUCATION (4 PE classes = 1/3 unit)

| | | | | |
|---|--|--|--|------|
| | | | | 1/12 |
| 7 | | | | 1/12 |
| | | | | 1/12 |
| | | | | 1/12 |
| | | | | 1/12 |

SOCIAL SCIENCE (2/3 unit) ECON, ENV, GOV, PSY, SD, SOC, SS, STS, DEV, and ID2050

| | | | | |
|---|--|--|--|-----|
| | | | | 1/3 |
| 8 | | | | 1/3 |
| 9 | | | | 1/3 |

THE INTERACTIVE QUALIFYING PROJECT (1 unit)

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 10 | | | | 1/3 |
| 11 | | | | 1/3 |
| 12 | | | | 1/3 |

FREE ELECTIVES (1 unit)

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 13 | | | | 1/3 |
| 14 | | | | 1/3 |
| 15 | | | | 1/3 |

MATHEMATICS (22/3 units)

May not include both MA 2631 and MA 2621.

May not include both MA 2071 and MA 2072.

At least 7/3 units must consist of MA courses at the 3000 level or above.

TRANSITION COURSES (4/3 units)

Must include at least four of the following: MA 1033 or MA 1971 (one only), MA 2073, MA 2211, MA 2251, MA 2271*, MA 2273*, MA 2431, MA 2631, MA 3631, or their equivalents (MA 2621 cannot be counted as a transition course)

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 16 | | | | 1/3 |
| 17 | | | | 1/3 |
| 18 | | | | 1/3 |
| 19 | | | | |

CORE COURSES (4/3 units)

| | | | | |
|----|----------------------|--|--|-----|
| | MA 3831 | | | 1/3 |
| 20 | | | | 1/3 |
| 21 | MA 3832 | | | 1/3 |
| 22 | MA 3257 or MA 3457 | | | 1/3 |
| 23 | MA 3823* or MA 3825* | | | 1/3 |

ADDITIONAL COURSES AT 3000 LEVEL OR HIGHER (1 unit)

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 24 | | | | 1/3 |
| 25 | | | | 1/3 |
| 26 | | | | 1/3 |

INTRODUCTORY AND OTHER MATH COURSES (8/3 units)

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 27 | | | | 1/3 |
| 28 | | | | 1/3 |
| 29 | | | | 1/3 |
| 30 | | | | 1/3 |
| 31 | | | | 1/3 |
| 32 | | | | 1/3 |
| 33 | | | | 1/3 |
| 34 | | | | 1/3 |

MAJOR QUALIFYING PROJECT (3/3 unit)

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 35 | | | | 1/3 |
| 36 | | | | 1/3 |
| 37 | | | | 1/3 |

MATHEMATICAL PROGRAM - RELATED COURSES (2 units)

Courses from other departments that are related to the student's mathematical program. At least 2/3 units of science must be included. At least 2/3 unit in computer science or data science must be included; the remaining courses are to be selected from science, engineering, computer science or business (except FIN 1250). Science courses may be chosen from the following disciplines: BB, CH, ES, GE, PH. CS/DS courses may include only one of DS 1010, CS 2022 and CS 3043.

| | | | | |
|----|----------|--|--|-----|
| | SCI | | | 1/3 |
| 38 | | | | 1/3 |
| 39 | SCI | | | 1/3 |
| 40 | CS or DS | | | 1/3 |
| 41 | CS or DS | | | 1/3 |
| 42 | | | | 1/3 |
| 43 | | | | 1/3 |

ADDITIONAL COURSES (2/3 units)

Additional courses or independent studies (except AS, MS, PE courses, and other degree requirements) from any area.

| | | | | |
|----|--|--|--|-----|
| | | | | 1/3 |
| 44 | | | | 1/3 |
| 45 | | | | 1/3 |

*Category II classes. Only offered every other year.