Advising resources for math faculty

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Useful links
CLAS Faculty Advisor resources page • CLAS Advising Center • University advising page
Math advising main page • Goals for math advising • Tips for talking with advisees
Math Advising Frequently Asked Questions - for odd advising situations (updated frequently)
Navigate - Central location for finding student information and recording advising notes

Key dates for reaching out to advisees and templates for correspondence

- First week of each semester - Welcome students, encourage them to meet with you
- When student becomes an advisee (if in the middle of a semester)
- Early March, before registration - Encourage to meet with you to make a plan
- Sample introductory and registration planning emails

Faculty resources for math major advising

- **Advisee list**: Navigate → Login. You'll see an advisee list on the front page; click on any one to get detailed information.
- **Email all advisees (templates): Banner** → GVSU Faculty/Staff Additional Student information → Advisee list. Send an email to all advisees from the bottom of this page.
- Advisees Blackboard page: Blackboard → "Organizations", there is an organization for your advisees. You can email advisees from here, but make the organization available first (top right → Organization Settings).
- Math major advising checklists (department) - list of requirements for each emphasis
- Math major 4-year plans (CLAS Advising Center) - suggested student schedules
- Math course offering plan - be aware of classes only offered once per year or less, especially MTH 360, 405, and 498.
- Math policies site for other useful information
- Math major newsletter website (archive of past newsletters is on the bottom of the page)
- Good minor options for math majors:
    - Mathematical statistics and STA 425: preparation for actuary, risk analyst, forecasting careers
    - Applied statistics: preparation for biostatistics, statistical surveying, business analyst careers
    - Business: preparation for business analyst, credit analyst, financial analyst, supply chain analyst type careers
    - Computer science: preparation for programming, data science, information analyst careers
    - Data science: preparation for data science and data analyst careers
    - Digital studies: Using and understanding ethics of digital tools
    - Engineering science: preparation for process engineer, project engineer, quality engineer careers

    - STEM ethics: philosophical grounding of ethical behavior aimed at STEM majors

Career & Internship Opportunities

- GVSU Career Center: Free resume advice (current students and alumni) and interview guidance (online tool for interview practice; scholarship for unpaid, for-credit internships)
- Career Fairs and networking events: free for all students and alumni
- US 301 (Internship and Job Search Strategies) is a good class for students to consider
- MTH 490 (Mathematics Internship Seminar) can earn credit for a "mathy" internship
- Handshake: job posting board; local, national and international opportunities
- Career Opportunities for Math Majors handout: A list of web sites/pages with career information relevant for math majors

Students Research Opportunities

- Office of Undergraduate Research & Scholarship & Programs they fund
- Math undergraduate research guide for students, including faculty research interests
- Undergraduate research fair (early October)
- List of REUs and similar programs

Getting students to take one more math course

- Math minor guides: How students in various majors can easily add a math minor.
- Common substitutions for students adding a math major; math minor. These can help make it easier for students to add a major or minor based on their current major.

Math courses that can be easy for students in other majors to add

- Computer Science majors: MTH 204 - Linear Algebra 1, MTH 205 - Linear Algebra 2, MTH 360 - Operations Research, MTH 465 - Automata and Theory of Computation (cross-listed as CIS 465).
- Engineering majors: MTH 205 - Linear Algebra 2, MTH 305 - Mathematical Modeling, MTH 401 - Mathematics for Physical Sciences, MTH 402 - Complex Variables (for electrical engineers). Encourage engineers interested in a math minor to take MTH 204+MTH 304 instead of MTH 302 – their advising center will approve this substitution.
- Stats majors: MTH 205 - Linear Algebra II, MTH 360 - Operations Research
- Science majors: MTH 304 - Differential Equations, MTH 204 - Linear Algebra I

Other resources for students

- Academic Success coaching and workshops through GVSU
- Academic skills resources
- "How to study" video series from Samford University
- University Counseling Center
- Support for basic needs (e.g. food, housing, health, financial support)