

Program Change Request

Date Submitted: 04/01/24 1:49 pm

Viewing: **IN-MS-P002 : INTO Mason: Science Graduate Pathways**

Last approved: 07/13/22 3:55 pm

Last edit: 04/02/24 11:12 am

Changes proposed by: cbrady12

Catalog Pages Using this Program
[INTO Mason: Science Graduate Pathways](#)

In Workflow

1. **IN Academic Director**
2. **IN Academic Affairs Dean**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. SC CAT Editor
6. Assoc Provost-Graduate
7. Registrar-Programs

Are you completing this form on someone else's behalf?

No

Effective Catalog: 2024-2025

Program Level: Graduate

Program Type: INTO-Mason

Title:
INTO Mason: Science Graduate Pathways

Registrar's Office Use Only – Program Start Term

Registrar/OAPI Use Only – SACSCOC Status

Concentration(s):

Approval Path

1. 10/27/22 12:19 pm
Steven Scott (sscott4): Approved for IN Academic Director
2. 10/28/22 11:25 am
Marcy Glover (mglover2): Approved for IN Academic Affairs Dean
3. 11/18/22 11:00 am
Gregory Craft (gcraft): Approved for SC Curriculum Committee
4. 11/22/22 11:29 am
Jennifer Bazaz Gettys (jbazaz): Approved for SC Associate Dean

5. 11/22/22 2:11 pm
Jennifer Bazaz
Gettys (jbazaz):
Approved for SC CAT
Editor
6. 04/03/23 6:24 pm
Jason McKnight
(jmckni): Rollback to
Initiator
7. 04/04/23 12:15 pm
Steven Scott
(sscott4): Approved
for IN Academic
Director
8. 04/04/23 12:37 pm
Marcy Glover
(mglover2):
Approved for IN
Academic Affairs
Dean
9. 04/28/23 11:02 am
Gregory Craft
(gcraft): Approved
for SC Curriculum
Committee
10. 05/02/23 3:05 pm
Jennifer Bazaz
Gettys (jbazaz):
Approved for SC
Associate Dean
11. 05/02/23 3:07 pm
Jennifer Bazaz
Gettys (jbazaz):
Approved for SC CAT
Editor
12. 09/14/23 2:12 pm
Yellia Seanor
(yseanor): Rollback
to Initiator
13. 04/02/24 11:12 am
Steven Scott

(sscott4): Approved
for IN Academic
Director

14. 04/02/24 11:37 am
Marcy Glover
(mglover2):
Approved for IN
Academic Affairs
Dean

History

1. Jul 13, 2022 by Tory
Sarro (vsarro)

| | Associated Concentrations | Registrar's Office Use Only: Concentration Code |
|----------|--------------------------------|---|
| 1 | Accelerated INTO | ACC |
| 2 | Extended INTO | EXT |
| 3 | Standard INTO | STD |
| <u>4</u> | <u>Bridge INTO (FRSC only)</u> | |

INTO Major(s):

| | Associated Majors | Registrar's Office Use only: Major Code |
|-----------------------|----------------------------------|---|
| 1 | Bioinformatics & Comp Biology | BCB |
| 2 | Bioinformatics Management | BNFM |
| 3 | Computational Science | COMP |
| <u>3</u> 4 | Earth Systems Science | ESSC |
| <u>4</u> 5 | Environmental Science & Policy | EVSP |
| <u>5</u> 6 | Forensic Science | FRSC |
| <u>6</u> 7 | Geographic & Cartographic Sci | GECA |
| <u>7</u> 8 | Mathematics | MATH |
| <u>8</u> 9 | Applied & Engineering Physics | PHAE |

College/School: INTO Mason

**Department /
Academic Unit:** INTO Mason

**Jointly Owned
Program?** Yes

**Participating
Colleges**

| | College |
|---|--------------------|
| 1 | College of Science |

**Participating
Departments**

Justification

Replacing two INTO Mason special topics courses with permanent courses:

EAP 405 > EAP 401

INYO 508 > INYO 505

Replacing INTO Mason EAP 508 with EAP 507 in order to simplify curriculum.

Deactivating the Standard and Accelerated Pathways to the MS in Computational Science.

Adding approve Forensic Science Bridge pathway to "Associated Concentrations."

and credit overload edits:

Now in their tenth year, INTO Mason Graduate Pathway programs get international and multilingual students started on a path to degree completion. Extra supports are built in to the pathway programs in the form of cultural transition coursework and English language coursework, under the course prefixes INYO (International Year One) and EAP (English for Academic Purposes). Therefore, those classes have been added as credit bearing which causes the over load. Content in these courses had been provided in non-credit-bearing workshops and courses in the past, but students did not see the importance of the skills without credits attached to them. Course content includes sessions with INTO Mason advising staff and explorations of students' academic disciplines as a way to help students professionalize and to transition into the American graduate school context. Combining those INYO and EAP supports with degree classes, ensures that Pathway students cannot opt out of key information, skills, and experiences that enable success in the Pathway and beyond to degree completion. The fact that INTO Mason students achieve higher graduation rates than their directly admitted classmates proves the effectiveness of these strategies. For this reason, the academic loads for Pathway students in the majority of programs exceed the maximum credit limits as put forth by the university for non-degree students, and in some cases, they exceed the maximum credit limits put forth for degree-seeking students. Simply put, getting these students ready for their graduate programs, starting as they do at a lower English proficiency level, requires this higher credit load as they are in their pathways for only one or two terms. The programs with the highest credit loads are for accelerated students who are only with INTO Mason for one semester and bridge students who are two-term students, yet they are coming to GMU with only a three-year degree so need the additional academic and cultural adjustment time, if not necessarily as much language support. Also of note is that Pathway students are coded as

'non-degree' even though they are full-time enrolled students on specific degree paths so we do feel they should be viewed, for purposes of this policy, as 'degree-seeking.' We have considered adding 'boot camp' style programming prior to the pathways, but this was prevented because of the complicated rules related to the students' I20 documents, and related to the unpredictable timing of student visa approvals.

Catalog Published Information

Registrar's Office Use Only - Program Code:

IN-MS-P002

Registrar/IRR Use Only – Program CIP Code

INTO-Mason Requirements:

Applied and Engineering Physics Graduate Pathway

The following grid is for the first semester of the Standard, ~~standard~~, 2-semester Pathway ~~pathway~~ into the Master of Science in Applied and Engineering Physics degree:

~~Standard semester 1 of 2~~

Semester 1 of 2 1

PHYS 502 Introduction to Quantum Mechanics and Atomic Physics³

or PHYS 684 Quantum Mechanics I

EAP 506 Graduate Communication in the Disciplines I 4

INYO 504 Transitions for International Graduate Students 3

EAP 410 Language Support for International Students 2

Total Credits 12

1

A credit overload is required in this semester.

The following grid is for the second semester of the Standard, ~~standard~~, 2-semester Pathway ~~pathway~~ into the Master of Science in Applied and Engineering Physics degree:

Semester 2 of 2

PHYS 513 Applied Electromagnetic Theory 3

or PHYS 685 Classical Electrodynamics I

EAP 507 Advanced Graduate Communication Across the Disciplines 4

~~EAP 405 Special Topics in Advanced English for Academic Purposes 1~~

~~INYO 508 Special Topics Content Support in the Disciplines 1~~

INYO 505 Intercultural Competence and Professional Development for Multilingual Graduate Students 1

EAP 401 Advanced English Grammar for Multilingual Students 1

Total Credits 9

The following grid is for the single semester of the Accelerated, single-semester Pathway ~~accelerated, 1-semester pathway~~ into the Master of Science in Applied and Engineering Physics degree:

Accelerated semester 1 of 1 1

| | | |
|-----------------|---|----------|
| <u>EAP 508</u> | <u>Graduate Communication in the Disciplines III</u> | <u>4</u> |
| <u>EAP 405</u> | <u>Special Topics in Advanced English for Academic Purposes</u> | <u>1</u> |
| <u>PHYS 502</u> | Introduction to Quantum Mechanics and Atomic Physics | 3 |
| | or <u>PHYS 684</u> Quantum Mechanics I | |
| <u>PHYS 705</u> | Classical Mechanics | 3 |
| <u>EAP 507</u> | <u>Advanced Graduate Communication Across the Disciplines</u> | <u>4</u> |
| <u>INYO 504</u> | Transitions for International Graduate Students | 3 |
| <u>EAP 401</u> | <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | | 14 |

1

A credit overload is required in this semester.

Bioinformatics and Computational Biology/Management Graduate Pathway

The following grid is for the first semester of the Standard, standard, 2-semester Pathway ~~pathway~~ into the Master of Science in Bioinformatics and Computational Biology / Management degree:

~~Standard semester 1 of 2~~

Semester 1 of 2 1

| | | |
|-----------------|---|----|
| <u>BINF 631</u> | Molecular Cell Biology for Bioinformatics | 3 |
| | or <u>BINF 630</u> Bioinformatics Methods | |
| <u>EAP 506</u> | Graduate Communication in the Disciplines I | 4 |
| <u>INYO 504</u> | Transitions for International Graduate Students | 3 |
| <u>EAP 410</u> | Language Support for International Students | 2 |
| Total Credits | | 12 |

1

A credit overload is required in this semester.

The following grid is for the second semester of the Standard, standard, 2-semester Pathway ~~pathway~~ into the Master of Science in Bioinformatics and Computational Biology / Management degree:

Semester 2 of 2

| | | |
|-----------------|---|----------|
| <u>BINF 631</u> | Molecular Cell Biology for Bioinformatics | 3 |
| | or <u>BINF 630</u> Bioinformatics Methods | |
| <u>EAP 507</u> | Advanced Graduate Communication Across the Disciplines | 4 |
| <u>EAP 405</u> | <u>Special Topics in Advanced English for Academic Purposes</u> | <u>1</u> |
| <u>INYO 508</u> | <u>Special Topics Content Support in the Disciplines</u> | <u>1</u> |
| <u>INYO 505</u> | <u>Intercultural Competence and Professional Development for Multilingual Graduate Students</u> | <u>1</u> |
| <u>EAP 401</u> | <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | | 9 |

The following grid is for the single semester of the Accelerated Pathway ~~accelerated, 1-semester pathway~~ into the Master of Science in Bioinformatics and Computational Biology / Management degree:

~~Accelerated semester 1 of 1~~

| | |
|---|--------------|
| EAP-508 Graduate Communication in the Disciplines III | 4 |
| EAP-405 Special Topics in Advanced English for Academic Purposes I | 1 |
| INYO-504 Transitions for International Graduate Students | 3 |
| CSI-690 Numerical Methods | 3 |
| CSI-695 Scientific Databases | 3 |
| Total Credits | 0 |

Accelerated semester 1 of 1 1

| | |
|---|--------------|
| EAP-508 Graduate Communication in the Disciplines III | 4 |
| EAP-405 Special Topics in Advanced English for Academic Purposes I | 1 |
| <u>BINF 631</u> Molecular Cell Biology for Bioinformatics | 3 |
| or <u>BINF 634</u> Bioinformatics Programming | |
| <u>BINF 630</u> Bioinformatics Methods | 3 |
| or <u>BINF 633</u> Molecular Biotechnology | |
| <u>EAP 507</u> <u>Advanced Graduate Communication Across the Disciplines</u> | <u>4</u> |
| <u>INYO 504</u> Transitions for International Graduate Students | 3 |
| <u>EAP 401</u> <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | 14 |

1

A credit overload is required in this semester.

~~Computational Science Graduate Pathway The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Computational Science degree: The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Computational Science degree: The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Computational Science degree:~~ Earth Systems Science

Graduate Pathway

Standard semester 2 of 2

| | |
|---|--------------|
| EAP-507 Advanced Graduate Communication Across the Disciplines | 4 |
| EAP-405 Special Topics in Advanced English for Academic Purposes I | 1 |
| INYO-508 Special Topics Content Support in the Disciplines | 1 |
| CSI-690 Numerical Methods | 3 |
| Total Credits | 0 |

Standard semester 1 of 2

| | |
|--|----------|
| EAP 506 Graduate Communication in the Disciplines I | 4 |
| EAP 410 Language Support for International Students | 2 |
| INYO 504 Transitions for International Graduate Students | 3 |
| CSI 695 Scientific Databases | 3 |
| Total Credits | 0 |

The following grid is for the first semester of the Standard, ~~standard~~, 2-semester Pathway ~~pathway~~ into the Master of Science in Earth Systems Science degree:

Standard semester 1 of 2Semester 1 of 2 1

| | |
|--|-----------|
| <u>GG5 553</u> Geographic Information Systems | 3 |
| or <u>GG5 560</u> Quantitative Methods | |
| or <u>GG5 579</u> Remote Sensing | |
| EAP 506 Graduate Communication in the Disciplines I | 4 |
| INYO 504 Transitions for International Graduate Students | 3 |
| EAP 410 Language Support for International Students | 2 |
| Total Credits | 12 |

1

A credit overload is required in this semester.

The following grid is for the second semester of the Standard, ~~standard~~, 2-semester Pathway ~~pathway~~ into the Master of Science in Earth Systems Science degree:

Standard semester 2 of 2Semester 2 of 2 1

| | |
|--|-----------|
| <u>GEOL 513</u> Hydrogeology | 3 |
| or <u>GEOL 532</u> Paleoclimatology | |
| <u>CLIM 512</u> Physical Oceanography | 3 |
| or <u>GEOL 506</u> Soil Science | |
| EAP 507 Advanced Graduate Communication Across the Disciplines | 4 |
| EAP 405 Special Topics in Advanced English for Academic Purposes | 1 |
| INYO 508 Special Topics Content Support in the Disciplines | 1 |
| <u>INYO 505 Intercultural Competence and Professional Development for Multilingual Graduate Students</u> | <u>1</u> |
| <u>EAP 401 Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | 12 |

1

A credit overload is required in this semester.

The following grid is for the single semester of the Accelerated Pathway ~~accelerated~~, 1-semester ~~pathway~~ into the Master of Science in Earth Systems Science degree:

Accelerated semester 1 of 1 1

| | |
|--|---|
| EAP 508 Graduate Communication in the Disciplines III | 4 |
| EAP 405 Special Topics in Advanced English for Academic Purposes | 1 |
| <u>GG5 553</u> Geographic Information Systems | 3 |

| | |
|---|----------|
| or GG5 560 Quantitative Methods | |
| or GG5 579 Remote Sensing | |
| GEOL 506 Soil Science | 3 |
| or GEOL 513 Hydrogeology | |
| or GEOL 532 Paleoclimatology | |
| or CLIM 512 Physical Oceanography | |
| EAP 507 <u>Advanced Graduate Communication Across the Disciplines</u> | 4 |
| INYO 504 Transitions for International Graduate Students | 3 |
| EAP 401 <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | 14 |

1A credit overload is required in this semester.

Environmental Science and Policy Graduate Pathway

The following grid is for the first semester of the Standard, standard, 2-semester Pathway pathway into the Master of Science in Environmental Science and Policy degree:

Standard semester 1 of 2

Semester 1 of 2 1

| | |
|--|----|
| EAP 506 Graduate Communication in the Disciplines I | 4 |
| EVPP 506 Science of the Environment I | 3 |
| INYO 504 Transitions for International Graduate Students | 3 |
| EAP 410 Language Support for International Students | 2 |
| Total Credits | 12 |

1A credit overload is required in this semester.

The following grid is for the second semester of the Standard, standard, 2-semester Pathway pathway into the Master of Science in Environmental Science and Policy degree:

Semester 2 of 2

| | |
|--|--------------|
| EVPP 507 Science of the Environment II | 3 |
| EAP 507 Advanced Graduate Communication Across the Disciplines | 4 |
| EAP 405 Special Topics in Advanced English for Academic Purposes | 1 |
| INYO 508Special Topics Content Support in the Disciplines | 1 |
| INYO 505 <u>Intercultural Competence and Professional Development for Multilingual Graduate Students</u> | <u>1</u> |
| EAP 401 <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | 9 |

The following grid is for the single semester of the Accelerated Pathway accelerated, 1-semester pathway into the Master of Science in Environmental Science and Policy degree:

Accelerated semester 1 of 1 1

| | |
|---|--------------|
| EAP 508 Graduate Communication in the Disciplines III | 4 |
| EAP 405 Special Topics in Advanced English for Academic Purposes | 1 |

| | |
|---|----|
| EVPP or PUAD course | 3 |
| EVPP or PUAD course | 3 |
| <u>EAP 507 Advanced Graduate Communication Across the Disciplines</u> | 4 |
| <u>INYO 504</u> Transitions for International Graduate Students | 3 |
| <u>EAP 401 Advanced English Grammar for Multilingual Students</u> | 1 |
| Total Credits | 14 |

1A credit overload is required in this semester.

Forensic Science Graduate Pathway

The following grid is for the first semester of the Standard, ~~standard~~; 2-semester Pathway ~~pathway~~ into the Master of Science in Forensic Science degree:

~~Standard semester 1 of 2~~Semester 1 of 2 1

| | |
|---|----|
| <u>FRSC 500</u> Introduction to Forensic Science | 3 |
| <u>EAP 506</u> Graduate Communication in the Disciplines I | 4 |
| <u>INYO 504</u> Transitions for International Graduate Students | 3 |
| <u>EAP 410</u> Language Support for International Students | 2 |
| Total Credits | 12 |

1A credit overload is required in this semester.

The following grid is for the second semester of the Standard, ~~standard~~; 2-semester Pathway ~~pathway~~ into the Master of Science in Forensic Science degree:

~~Standard semester 2 of 2~~Semester 2 of 2 1

| | |
|--|--------------|
| <u>FRSC 510</u> Basic Crime Analysis | 3 |
| <u>FRSC 570</u> Trace and Physical Evidence Concepts | 3 |
| <u>EAP 507</u> Advanced Graduate Communication Across the Disciplines | 4 |
| EAP 405 Special Topics in Advanced English for Academic Purposes | 1 |
| INYO 508 Special Topics Content Support in the Disciplines | 1 |
| <u>INYO 505</u> Intercultural Competence and Professional Development for Multilingual Graduate Students | 1 |
| <u>EAP 401</u> Advanced English Grammar for Multilingual Students | 1 |
| Total Credits | 12 |

1A credit overload is required in this semester.

The following grid is for the single semester of the Accelerated, ~~accelerated~~; 1-semester Pathway ~~pathway~~ into the Master of Science in Forensic Science degree:

Accelerated semester 1 of 1 1

| | |
|---|---|
| EAP 508 Graduate Communication in the Disciplines III | 4 |
| EAP 405 Special Topics in Advanced English for Academic Purposes | 1 |

| | |
|---|----------|
| FRSC 500 Introduction to Forensic Science | 3 |
| FRSC 510 Basic Crime Analysis | 3 |
| EAP 507 <u>Advanced Graduate Communication Across the Disciplines</u> | 4 |
| INYO 504 Transitions for International Graduate Students | 3 |
| EAP 401 <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |
| Total Credits | 14 |

1A credit overload is required in this semester.

~~Geographic and Cartographic Sciences Graduate Pathway The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Geographic and Cartographic Sciences degree: The following grid is for the second semester of the standard, 2-semester pathway into the Master of Science in Geographic and Cartographic Sciences degree: The following grid is for the single semester of the accelerated, 1-semester pathway into the Master of Science in Geographic and Cartographic Sciences degree: Mathematics Graduate Pathway The following grid is for the first semester of the standard, 2-semester pathway into the Master of Science in Mathematics degree: The following grid is for the first ~~second~~ semester of the Bridge Pathway standard, 2-semester pathway into the Master of Science in Forensic Science ~~in Mathematics~~ degree:~~

~~Standard semester 1 of 2~~

| | |
|---|--------------|
| EAP 506 Graduate Communication in the Disciplines I | 4 |
| EAP 410 Language Support for International Students | 2 |
| INYO 504 Transitions for International Graduate Students | 3 |
| CSI 695 Scientific Databases | 3 |
| Total Credits | 0 |

~~Semester 1 of 2~~ 1

| | |
|---|----------|
| <u>Upper-level Undergraduate Course</u> | <u>3</u> |
| <u>FRSC 500</u> Introduction to Forensic Science | <u>3</u> |
| <u>EAP 506</u> <u>Graduate Communication in the Disciplines I</u> | <u>4</u> |
| <u>INYO 504</u> Transitions for International Graduate Students | <u>3</u> |
| Total Credits | 13 |

1A credit overload is required in this semester.

The following grid is for the second semester of the Bridge Pathway standard, 2-semester pathway into the Master of Science in Forensic Science degree: ~~in Computational Science degree:~~

~~Semester 2 of 2~~ 1

| | |
|--|----------|
| <u>Upper-level Undergraduate Course</u> | <u>3</u> |
| <u>FRSC 510</u> Basic Crime Analysis | <u>3</u> |
| <u>FRSC 570</u> Trace and Physical Evidence Concepts | <u>3</u> |
| <u>EAP 507</u> <u>Advanced Graduate Communication Across the Disciplines</u> | <u>4</u> |
| <u>INYO 505</u> Intercultural Competence and Professional Development for Multilingual Graduate Students | <u>1</u> |
| <u>EAP 401</u> <u>Advanced English Grammar for Multilingual Students</u> | <u>1</u> |

Total Credits

15

1A credit overload is required in this semester.

Geographic and Cartographic Sciences Graduate Pathway

The following grid is for the first semester of the Standard ~~standard~~, 2-semester Pathway ~~pathway~~ into the Master of Science in Geographic and Cartographic Sciences degree:

~~Standard semester 1 of 2~~

Semester 1 of 2 1

GG5 551 Cartographic Design 3

or GG5 553Geographic Information Systems

or GG5 560Quantitative Methods

or GG5 579Remote Sensing

EAP 506 Graduate Communication in the Disciplines I 4

INYO 504 Transitions for International Graduate Students3

EAP 410 Language Support for International Students 2

Total Credits 12

1A credit overload is required in this semester.

The following grid is for the second semester of the Standard, ~~standard~~, 2-semester Pathway ~~pathway~~ into the Master of Science in Geographic and Cartographic Sciences degree:

~~Standard semester 2 of 2~~

Semester 2 of 2 1

Required Major Courses (student will take two of the following): 6

GG5 551 Cartographic Design

or GG5 553Geographic Information Systems

or GG5 560Quantitative Methods

or GG5 579Remote Sensing

EAP 507 Advanced Graduate Communication Across the Disciplines 4

~~EAP 405 Special Topics in Advanced English for Academic Purposes 1~~

~~INYO 508 Special Topics Content Support in the Disciplines 1~~

INYO 505 Intercultural Competence and Professional Development for Multilingual Graduate Students1

EAP 401 Advanced English Grammar for Multilingual Students 1

Total Credits 12

1A credit overload is required in this semester.

The following grid is for the single semester of the Accelerated Pathway ~~accelerated~~, 1-semester ~~pathway~~ into the Master of Science in Geographic and Cartographic Sciences degree:

Accelerated semester 1 of 1 1

~~EAP 508 Graduate Communication in the Disciplines III 4~~

EAP 405 Special Topics in Advanced English for Academic Purposes 1

Required Major Courses (student will take two of the following): 6

GG5 551 Cartographic Designor GG5 553 Geographic Information Systemsor GG5 560 Quantitative Methodsor GG5 579 Remote SensingEAP 507 Advanced Graduate Communication Across the Disciplines 4INYO 504 Transitions for International Graduate Students 3EAP 401 Advanced English Grammar for Multilingual Students 1

Total Credits 14

1A credit overload is required in this semester.

Mathematics Graduate Pathway

The following grid is for the first semester of the Standard, standard, 2-semester Pathway pathway into the Master of Science in Mathematics degree: Computational Science Graduate Pathway

Standard semester 1 of 2Semester 1 of 2 1MATH 315 Advanced Calculus I 3or MATH 675 Linear AnalysisEAP 506 Graduate Communication in the Disciplines I 4INYO 504 Transitions for International Graduate Students 3EAP 410 Language Support for International Students 2

Total Credits 12

1A credit overload is required in this semester.

The following grid is for the second first semester of the Standard, standard, 2-semester Pathway pathway into the Master of Science in Mathematics degree: in Computational Science degree:

Standard semester 2 of 2Semester 2 of 2 1MATH 321 Abstract Algebra 3or MATH 621 Algebra IMATH 322 Advanced Linear Algebra 3EAP 507 Advanced Graduate Communication Across the Disciplines 4EAP 405 **Special Topics in Advanced English for Academic Purposes** 1INYO 508 **Special Topics Content Support in the Disciplines** **1**INYO 505 Intercultural Competence and Professional Development for Multilingual Graduate Students 1EAP 401 Advanced English Grammar for Multilingual Students 1

Total Credits 12

1A credit overload is required in this semester.

Program Outcomes**OAPI Use Only – Determination of SACSCOC Impact**

Comments or Notes**Does this program cover material which crosses into another department?**

No

Additional Attachments**Reviewer Comments**

Jason McKnight (jmckni) (04/03/23 6:24 pm): Rollback: Rollback per request of Christina Brady

Yellia Seanor (yseanor) (09/14/23 2:12 pm): Rollback: We are still waiting for final approval for language on AP.1.2 from Faculty Senate so continuing to hold new proposals until that is complete. Hopefully ready to move forward by October.

Additional Comments

Justification added to explain the credit overloads required in the Pathways.

Notations added beneath each semester where overloads are required.

Formatting updated for consistency with other Pathway program entries.

Deactivating the Standard and Accelerated Pathways to the MS in Computational Science.

Looking into proposing Pathways to certificates instead.

Is this course required of all students in this degree program?

%wi_required.eshtml%

Key: 986