Program Change Request

Date Submitted: 09/28/21 11:26 am

Viewing: : Bachelor's Degree (selected), Bioinformatics Management, Accelerated PSM

Last approved: 03/31/21 3:34 pm

Last edit: 10/06/21 2:05 pm

Changes proposed by: jbazaz

Catalog Pages Using this Program

Biology, BS

Chemistry, BS

Computational and Data Sciences, BS

Are you completing this form on someone else's behalf? No

Effective Catalog: 2022-2023

Program Level: Undergraduate & Graduate (BAMs)

Program Type: Bachelor's/Accelerated Master's

Title: Bachelor's Degree (selected), Bioinformatics Management, Accelerated PSM

Registrar's Office Use Only – Program Start Term

Registrar/OAPI Use Only – SACSCOC Status

Concentration(s):

College/School: College of Science

Department / Academic Unit: School of Systems Biology

Jointly Owned Program? Yes

In Workflow

1. **Registrar-Programs:Workflow Review**
2. **SSB Program Chair**
3. **PHYS UG Committee**
4. **CDS Chair**
5. **CHEM Chair**
6. **PHYS Chair**
7. **NEUR Chair**
8. **BIOL Program Chair**
9. **SC Curriculum Committee**
10. SC Associate Dean
11. SC CAT Editor
12. Assoc Provost-Graduate
13. Assoc Provost-Undergraduate
14. Registrar-Programs

Approval Path

1. 09/30/21 10:00 am Tory Sarro (vsarro): Approved for Registrar-Programs:Workflow Review
2. 11/12/21 3:44 pm Iosif Vaisman (ivaisman): Approved for SSB Program Chair
3. 02/08/22 2:44 pm Philip Rubin

Participating Colleges

	College
1	College of Science

Participating Departments

	Department
1	School of Systems Biology
2	Biology
3	Computational & Data Sciences
4	Chemistry & Biochemistry
5	Physics & Astronomy
6	Interdisciplinary Neuroscience Program

Justification

(prubin): Approved for PHYS UG Committee

4. 02/11/22 3:50 pm Jason Kinser (jkinser): Approved for CDS Chair
5. 02/25/22 9:09 am Gerald Weatherspoon (grobert1): Approved for CHEM Chair
6. 02/25/22 9:30 am Paul So (paso): Approved for PHYS Chair
7. 02/25/22 9:36 am Saleet Jafri (sjafri): Approved for NEUR Chair
8. 03/02/22 8:09 am Geraldine Grant (ggrant1): Approved for BIOL Program Chair

History

1. Dec 9, 2019 by Jennifer Bazaz Gettys (jbazaz)
2. Feb 24, 2020 by Tory Sarro (vsarro)
3. Mar 10, 2020 by Johanna Riemen (jriemen)
4. Mar 2, 2021 by Jennifer Bazaz Gettys (jbazaz)

5. Mar 31, 2021 by Tory Sarro (vsarro)

What: Adding clarifying language about the 12 overlapping credits.
Why: It was noted that the sentence could be clearer, indicating that the 12 credits count toward both the undergraduate AND graduate degrees.

What: Replacing 700-level course suggestions with lower-level suggestions for our undergraduates.
Why: Undergraduate students are unable to enroll in 700+ level courses.

Catalog Published Information

Accelerated Description/Dual Degree Description:

Bachelor's Degree (selected), Bioinformatics Management, Accelerated PSM

Overview

This bachelor's/accelerated master's degree program allows academically strong undergraduates with a commitment to advance their education to obtain both the Biology, BS, or the Chemistry, BS, or the Computational and Data Sciences, BS, or the Physics, BS, or the Neuroscience, BS and the Bioinformatics Management, PSM degrees within an accelerated timeframe. Upon completion of this 138 credit accelerated program, students will be exceptionally well prepared for entry into their careers or into a doctoral program in the field or in a related discipline. Students are eligible to apply for this accelerated program once they have earned at least 60 undergraduate credits and can enroll in up to 18 credits of graduate coursework after successfully completing 75 undergraduate credits. This flexibility makes it possible for students to complete a bachelor's and a master's in five years.

For more detailed information, see AP.6.7 Bachelor's/Accelerated Master's Degrees. For policies governing all graduate degrees, see AP.6 Graduate Policies. For more information on undergraduates enrolling in graduate courses, see AP.1.4.4 Graduate Course Enrollment by Undergraduates.

Application Requirements

Applicants to all graduate programs at George Mason University must meet the admission standards and application requirements for graduate study as specified in the Graduate Admission Policies section of this catalog. Important application information and processes for this accelerated master's program can be found here.
Students in the Biology, BS; Chemistry, BS; Computational and Data Sciences, BS; Neuroscience, BS; or Physics, BS with an overall GPA of at least 3.00 in their last 60 credits are welcome to apply to the Bioinformatics Management, PSM accelerated master's program. Applicants to this accelerated master's should have previously taken courses in molecular biology, computer science, calculus, physical chemistry, and statistics. Students with deficiencies in one or more of these areas may be required to take additional courses from the undergraduate curriculum.
The GRE requirement is waived for students accepted into this accelerated program.
Students should seek out the graduate program's advisor who will aid in choosing the appropriate graduate courses and help prepare the student for graduate studies.

Accelerated Option Requirements

After the completion of 75 undergraduate credits, students may complete 3 to 12 credits of graduate coursework that can apply to both the undergraduate and graduate degrees.
In addition to applying to graduate from the undergraduate program, students in the accelerated program must submit a bachelor's/accelerated master's transition form (available from the Office of the University Registrar) to the College of Science's Office of Academic and Student Affairs by the last day to add classes of their final undergraduate semester. Students should enroll for courses in the master's program in the fall or spring semester immediately following conferral of the bachelor's degree, but should contact an advisor if they would like to defer up to one semester.
Students must maintain an overall GPA of 3.00 or higher in all graduate coursework and should consult with their faculty advisor to coordinate their academic goals.

Reserve Graduate Credits

Accelerated master's students may also take up to 6 graduate credits as reserve graduate credits. These credits do not apply to the undergraduate degree, but will reduce the master's degree by up to 6 credits. With 12 graduate credits counted toward the undergraduate **and graduate degrees** ~~degree~~ plus the maximum 6 reserve **graduate** ~~graduate~~ credits, the credits necessary for the **graduate degree** ~~graduate degree~~ can be reduced by up to 18.

Graduate Course Suggestions

The following list of suggested courses is provided for general reference. To ensure an efficient route to graduation and post-graduation readiness, students are strongly encouraged to meet with an advisor before registering for graduate-level courses.

BINF 630	Bioinformatics Methods	3
BINF 631	Molecular Cell Biology for Bioinformatics	3
~~BINF 702~~	~~Biological Data Analysis~~	~~3~~
GBUS 623	**Marketing Management**	**3**
GBUS 643	**Managerial Finance**	**3**
GBUS 738	Data Mining for Business Analytics	3

Program Outcomes

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Additional Attachments

Reviewer Comments

Additional Comments

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

%wi_required.eschtml%

Key: 780