Date Submitted: 12/11/20 11:00 am

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

Last approved: 03/10/20 12:05 pm

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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: 2021-2022

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 /   School of Systems Biology
Academic Unit:

Jointly Owned   Yes
Program?

In Workflow

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

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)

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

Updating this BAM pathway to accommodate the new policy revisions: 1. Ability to complete programs in 138 credits, 2. Admission into BAM program by at least 60 UG credits, 3. Begin graduate coursework at 75 UG credits, 4. Allow 3-12 credits to be applied to the UG and GR degree, 5. Including a curated list of graduate courses.

Inserting a college "template" for BAM entries so that the college has consistent and clear messaging.

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 ~~Admission and Processing RequirementsStudents in the Biology, BS; Chemistry, BS; Computational and Data Sciences, BS; Neuroscience, BS; or Physics, BS~~ **with a commitment** ~~an overall GPA of at least 3.00 in their last 60 credits are welcome~~ **to advance their education** ~~apply~~ **to obtain both the** <u>Biology, BS</u>**, or the** <u>Chemistry, BS</u>**, or the** <u>Computational and Data Sciences, BS</u>**, or the** <u>Physics, BS</u>**, or the** <u>Neuroscience, BS</u> **and the** <u>Bioinformatics Management, PSM</u> **degrees within an accelerated timeframe.** ~~accelerated master's program.~~ **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.

~~Policies~~

For more detailed information, ~~information on accelerated master's in general,~~ **see** <u>AP.6.7 Bachelor's/Accelerated Master's Degrees</u>**. For policies governing all graduate degrees,** ~~programs,~~ **see** <u>AP.6 Graduate Policies</u>**. For more information on undergraduates enrolling in graduate courses, see** <u>AP.1.4.4 Graduate Course Enrollment by Undergraduates</u>**.**

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 <u>Graduate Admission Policies</u> **section of this catalog.**

Important application information and processes for this accelerated master's program can be found <u>here</u>**.**

Students ~~This degree option allows highly qualified George Mason University bachelor's students to earn a Bioinformatics Management, PSMdegree~~ **in** **the** <u>Biology,</u> ~~less time than if they had first graduated with a~~ <u>BS</u>**;** <u>Chemistry, BS</u>**;** <u>Computational</u> ~~degree~~ <u>and Data Sciences, BS</u>**;** <u>Neuroscience, BS</u>**; or** <u>Physics, BS</u> **with an overall GPA of at least 3.00 in their last 60 credits are welcome to apply** ~~then applied~~ **to the** <u>Bioinformatics Management,</u> <u>PSM</u> **accelerated master's program.** ~~the PSM program sequentially. Admission and Processing Requirements 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'sprogram.~~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.

~~By the beginning of the undergraduate student's senior year, they should submit a Graduate Application for Accelerated Master's Program form (obtained from the College of Science's Office of Academic and Student Affairs).~~**Students** ~~By at least the beginning of their senior year, students~~ should seek out **the graduate program's**

advisor ~~the Bioinformatics Management, PSM Program Director~~ who will aid ~~the student~~ in choosing the appropriate **graduate** ~~graduate~~ courses ~~to take~~ and help ~~to~~ prepare the student for **graduate** ~~graduate~~ studies.

~~In their senior year, accelerated master's students must complete the two graduate courses indicated on their Accelerated Master's Program Application with a minimum grade of 3.00 in eachcourse.They must maintain a minimum GPA of 3.00 in all coursework and in coursework applied to theirmajor.In the semester specified on the application (around the completion and conferral of the undergraduate degree), students must submit the Bachelor's/Accelerated Master's Transition form (found on the Office of the University Registrar website) and will subsequently be admitted into graduatestatus.~~ **Accelerated Option Requirements**

After the completion of 75 ~~Reserve Graduate CreditsStudents admitted to this program may take graduate courses after completing 90~~ undergraduate credits, **students may complete 3 to 12** ~~and up to 6~~ credits ~~of appropriate graduate coursework may be used in partial satisfaction~~ of **graduate coursework that can apply to both** ~~the requirements for~~ the undergraduate **and graduate degrees.** ~~degree.~~

In addition ~~To apply these credits~~ **to applying to graduate from the undergraduate program,** ~~the master's degree,~~ **students in the accelerated program must submit a bachelor's/accelerated master's transition** ~~request that the credits be moved from the undergraduate degree to the graduate degree using the Bachelor's/Accelerated Master's Transition~~ **form (available from** ~~found on~~ **the** <u>Office of the University Registrar</u>**) to the** <u>College of Science's Office of Academic and Student Affairs</u> **by the last day to add classes of their final undergraduate semester.** ~~website (as noted above).~~ **Students should enroll for courses** ~~If students earn at least a 3.00 GPA~~ **in** ~~these classes, they are granted advanced standing in~~ the master's program **in** ~~and must then complete an additional 25 credits to receive~~ 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.** ~~master's degree.~~

Students ~~They~~ **must maintain an overall** ~~a minimum~~ **GPA of 3.00 or higher in all graduate coursework and should consult with** ~~in coursework applied to~~ **their faculty advisor to coordinate their academic goals.** ~~major.~~

~~To apply these credits to the master's degree, students must request that the credits be moved from the undergraduate degree to the graduate degree using the Bachelor's/Accelerated Master's Transition form found on the Office of the University Registrar website (as notedabove).~~ **Reserve Graduate Credits**

Accelerated master's students ~~Students~~ may **also** take up to 6 ~~additional approved~~ graduate credits as reserve graduate **credits.** ~~credit.~~ These credits do not apply to the undergraduate **degree,** ~~degree~~ but will reduce the ~~subsequent~~ master's degree **by up to** ~~credits accordingly (e.g., with~~ 6 **credits. With 12 graduate credits** ~~credits~~ counted **toward the** ~~towards~~ undergraduate degree plus **the** ~~the~~ maximum 6 reserve **graduate** credits, **the credits necessary for the graduate degree can** ~~the PSM could~~ be **reduced by up to 18.** ~~completed with 19 post-bachelor's credits).~~

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 702	**Biological Data Analysis**	**3**

~~The ability to take courses for reserve graduate credit is available to all high achieving undergraduates with the permission of the School of Systems Biology.Policies For more detailed information on accelerated master's in general, see AP.6.7 Bachelor's/Accelerated Master's Degrees.For policies governing all graduate programs, see AP.6 Graduate Policies.~~

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