

GSBS Curriculum Committee report

Academic year 2023-24



Morningside
Graduate School of
Biomedical Sciences

March 7th 2024 | Worcester | Faculty Council

Overview of activities

Business as usual

- Regular meetings 3rd Friday of month 10am to noon.
- Course Approved – Syllabi pending
 - How Biophysical, Chemical and Computational Strategies Impact Biological Research – BCCB; 6 credits, 5-page course and 3-page pathway review
 - Quantitative Modeling and Analysis – SCQB addition to BBS764; 2 credits, 3-page course and 1-page program review
- Courses in Process – Syllabi provided
 - Professional Development for Biomedical Graduate Internship Course, 1 credit
 - Responsible Conduct of Research, 2 Credits, BBS, BCCB, PHS & MD/PhD pathways

Related program/pathway development

Program approval is not within purview of CC! But program approval requires approved courses.

- BCCB: Biophysics Chemistry and Computational Biology Pathway, new entry pathway, not part of Umbrella
- SCQB: Systems Computational and Quantitative Biology, new BBS umbrella program
- Outlook: RNA Biology



The Intentionally Designed and Aligned Curriculum – 1st focus group (03/06/24)

What to learn
(aka what is our goal)

SME vs.
World Skills

Problem based
(lab)

How to teach it

How to assess

World Skills (Cross disciplinary)

- Critical Thinking
- Innovation
- Teamwork in various context
- Communicating with different media
- Citizenship

- Data analysis, Domain knowledge, what is common to “biomedical sciences”, Coding, AI, Ethics, leadership
- Subject Experts Domain & Project

The Intentionally Designed and Aligned Curriculum – what is today about?

Perspectives & Ideas

- No need to agree
- Big picture is okay
- Student centricity
- Skills definition and documentation
- Metrics – but which
- What can curriculum achieve for us
- Next challenges (AI, ...)

Aims and Needs

- Time to Degree, what is holding us back?
- Competencies for 1st year, QE, Graduation
- Alignment of core and program work
- What are our mission and philosophy for teaching
- Coherence among Faculty



And look out for the unexpected



Will NOT measure quantum states of molecules

And look out for the unexpected

