

The New MBS Curriculum

and how to succeed in it

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Rowan GSBS Masters of Biomedical Sciences (MBS) Program

Goals:

1. Foundational knowledge in the biomedical sciences.
2. Skills in advanced learning: time effectiveness, long-term retention, and understanding.
3. Fundamentals of quantitative and analytical reasoning.
4. Preparation for success in a professional degree program in biomedical or health sciences.

The New MBS Curriculum, starting Fall 2017

30 credits

8 required courses (23 credits):

Biochemistry & Molecular Biology
Cell Biology
Systems Physiology
Microbiology*
Anatomy & Histology**
Immunology*
Human Genetics**
Biomedical Data Analysis*

3-4 elective courses (7 credits):

8 lecture-based, 1 discussion-based
2-5 options per semester
Laboratory Research
Independent Study

3-6 semesters to complete

Certificate option (18 credits)

* Existing course, now required, ** New course

Current Electives:

Molecular Mechanisms of Aging

Exercise Physiology

Essential Neuroscience

Pathophysiology of the Cardiovascular System

Mechanisms of Disease

Antimicrobial Drugs: Mechanisms of Action and Resistance

Principals of Pharmacology

Cancer Chemotherapy

Case Studies in Biology and Medicine

Laboratory Research

Independent Study

	status	1st fall semester	1st spring semester	semesters to finish	total credits
Path 1	Part-time	Biochem Cell Bio	Physiology Anatomy/Histo	5 – 6	30
Path 2	Full-time	Biochem Cell Bio Genetics	Physiology Anatomy/Histo Data Analysis	4 – 5	30
Path 3	Full-time	Biochem Cell Bio Micro	Physiology Anatomy/Histo Immunology Data Analysis	3.5 – 4	30
Path 4	Full-time	Biochem Cell Bio Micro Genetics	Physiology Anatomy/Histo Immunology Data Analysis	3	30
Path 5	Part-time (Certificate)	Biochem Cell Bio	Physiology Anatomy/Histo	4	18
Path 6	Full-time (Certificate)	Biochem Cell Bio Micro	Physiology Anatomy/Histo Immunology	2	18

Path 1: PART-TIME, 5-6 SEMESTERS

YEAR	FALL	SPRING	SUMMER
1	Biochemistry & Molecular Biology (3)	Systems Physiology (3)	<i>Summer Elective (2-3)*</i>
	Cell Biology (3)	Anatomy & Histology (3)	
	<i>TOTAL CREDITS: 6</i>	<i>TOTAL CREDITS: 6</i>	<i>TOTAL CREDITS: 0-6</i>
2	Microbiology (3)	Immunology (3)	<i>Summer Elective (2-3)*</i>
	Human Genetics (3)	Biomedical Data Analysis (2)	
	<i>Fall Elective (2-3)*</i>	<i>Spring Elective (2-3)*</i>	
	<i>TOTAL CREDITS: 6-9</i>	<i>TOTAL CREDITS: 5-8</i>	<i>TOTAL CREDITS: 0-6</i>
		<i>PROGRAM CREDITS: ≥30</i>	

Required credits: 23

*Total elective credits: 7 (3-4 elective courses)

Path 2: FULL-TIME, 4-5 SEMESTERS

YEAR	FALL	SPRING	SUMMER
1	Biochemistry & Molecular Biology (3)	Systems Physiology (3)	<i>Summer Elective (2-3)*</i>
	Cell Biology (3)	Anatomy & Histology (3)	
	Human Genetics (3)	Biomedical Data Analysis (2)	
	<i>TOTAL CREDITS: 9</i>	<i>TOTAL CREDITS: 8</i>	<i>TOTAL CREDITS: 0-6</i>
2	Microbiology (3)	Immunology (3)	
	<i>Fall Elective (2-3)*</i>	<i>Spring Elective (2-3)*</i>	
	<i>Fall Elective (2-3)*</i>	<i>Spring Elective (2-3)*</i>	
	<i>TOTAL CREDITS: 3-9</i>	<i>TOTAL CREDITS: 3-9</i>	
		<i>PROGRAM CREDITS: ≥30</i>	

Required credits: 23

*Total elective credits: 7 (3-4 elective courses)

Path 3: FULL-TIME, 3.5-4 SEMESTERS

YEAR	FALL	SPRING	SUMMER
1	Biochemistry & Molecular Biology (3)	Systems Physiology (3)	<i>Summer Elective (2-3)*</i>
	Cell Biology (3)	Anatomy & Histology (3)	
	Microbiology (3)	Immunology (3)	
		Biomedical Data Analysis (2)	
	<i>TOTAL CREDITS: 9</i>	<i>TOTAL CREDITS: 11</i>	<i>TOTAL CREDITS: 0-6</i>
2	Human Genetics (3)	<i>Spring Elective (2-3)*</i>	
	<i>Fall Elective (2-3)*</i>	<i>Spring Elective (2-3)*</i>	
	<i>Fall Elective (2-3)*</i>		
	<i>TOTAL CREDITS: 3-9</i>	<i>TOTAL CREDITS: 2-6</i>	
			<i>PROGRAM CREDITS: ≥30</i>

Required credits: 23

*Total elective credits: 7 (3-4 elective courses)

All MBS students must have a B average (3.0) in all required courses and a B average overall to maintain satisfactory academic progress.

- The first semester that a student's GPA falls below 3.0 will result in an Academic Warning.
- If the GPA is not 3.0 after the following semester, the student will be in Academic Crisis, and financial aid will be in jeopardy. A plan for recovery will be required.
- If the GPA is not at 3.0 after the next semester, the student will be dismissed from the program.

Linkage between RowanGSBS and RowanSOM:

RowanSOM Admissions Office will guarantee an interview to any RowanGSBS student who has earned a minimum of 18 credits with a 3.6 overall GPA in the Master of Biomedical Sciences (MBS) program and an MCAT score of at least 500.

RowanSOM

You want to do well.
We want you to do well.

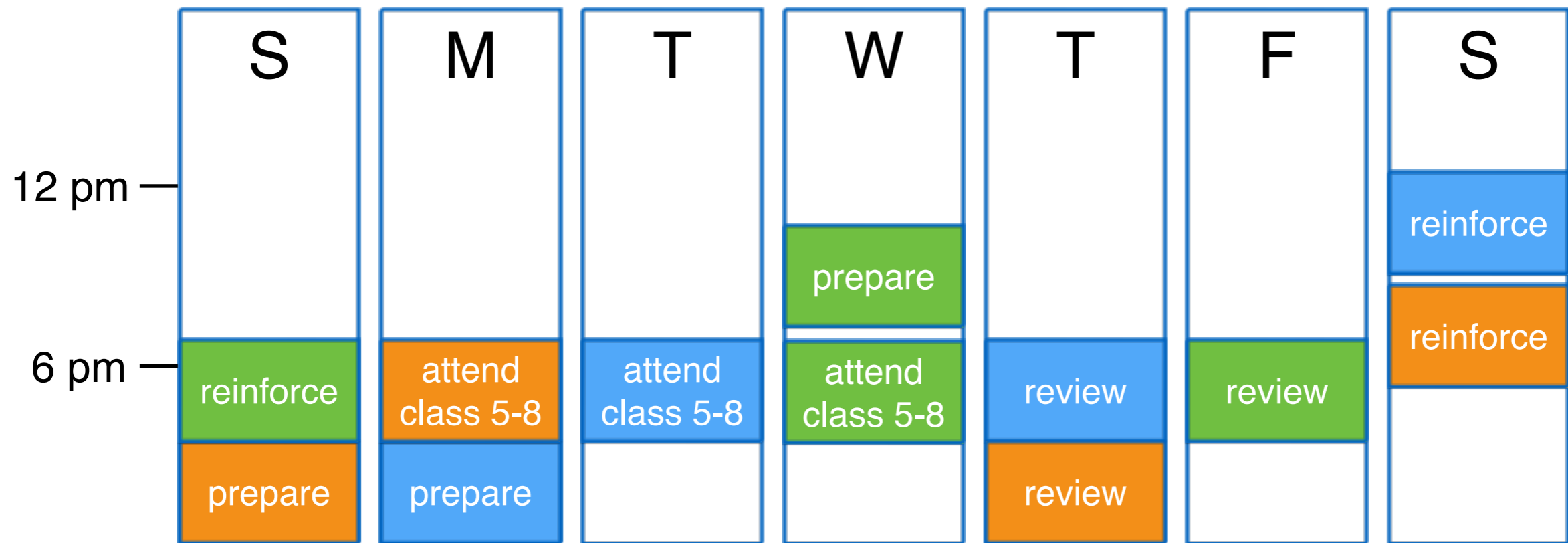
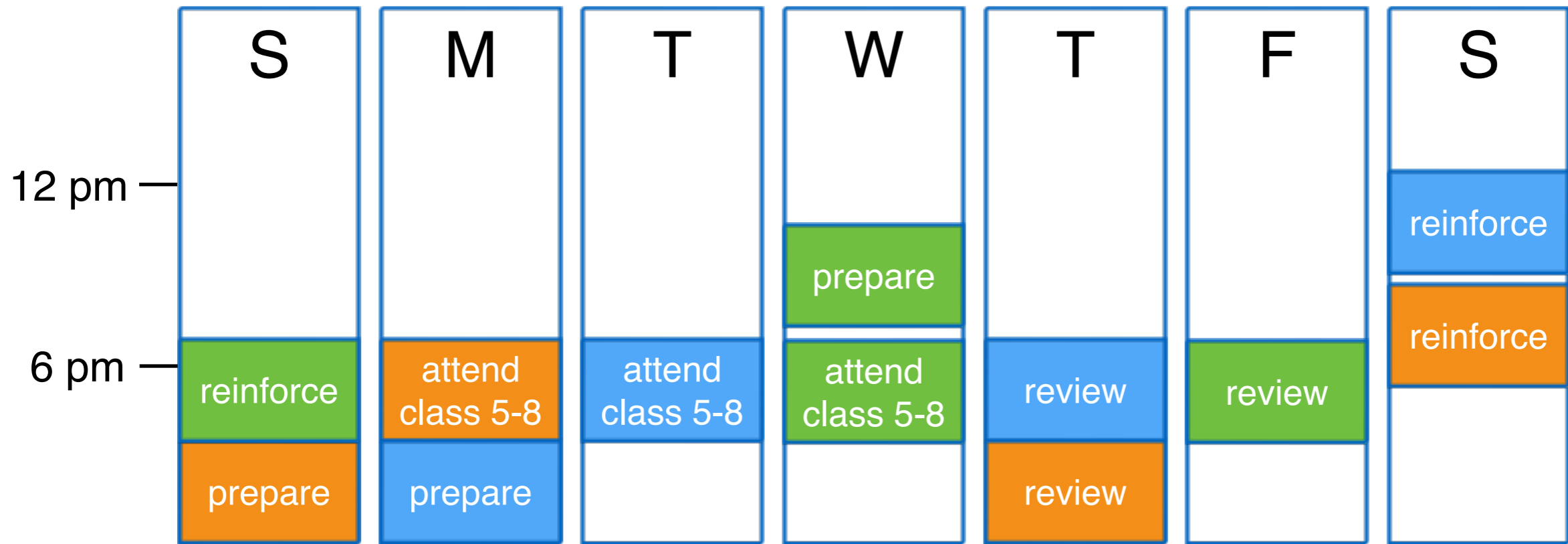
The courses are rigorous.
The material is delivered at a high volume.
Three courses is considered a heavy load.

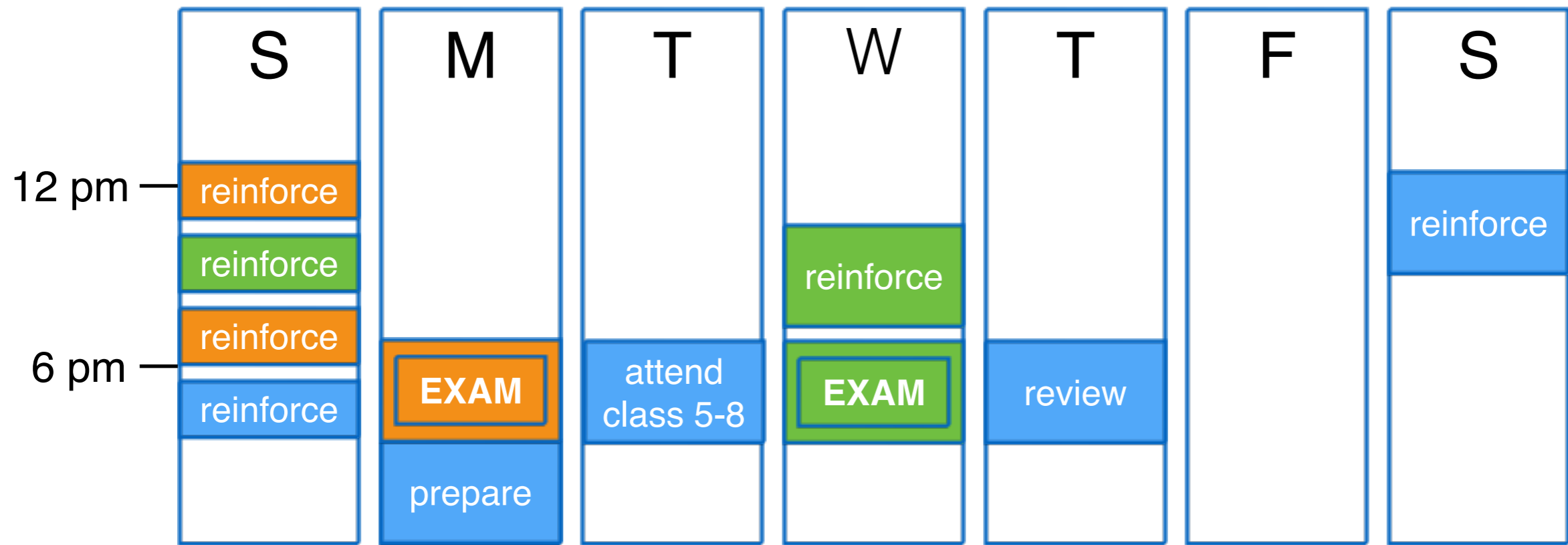
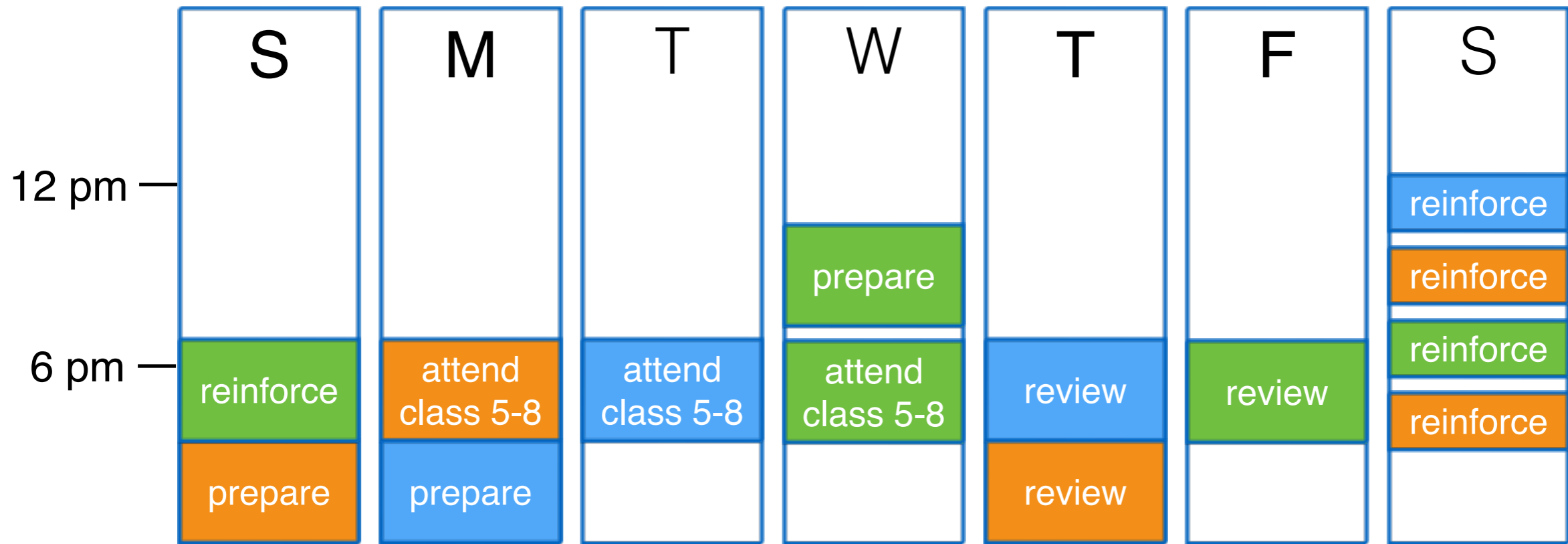
What should you do to succeed in the MBS program?

For every hour of lecture, you should study 3 hours each week.

“P.A.R.R. for the course”

Prepare	read the textbook actively take notes, formulate questions examine each powerpoint slide
Attend	watch and listen take detailed notes stay engaged, ask for clarification
Review	read every note you took does it make sense? is it clear? square the textbook and the lecture
Reinforce	draw and write exercise your recall fill in details and examples





exam week

	attend class*	prepare/review/ reinforce	total
1 class	3 hours	9 hours	12 hours
2 classes	6 hours	18 hours	24 hours
3 classes	9 hours	27 hours	36 hours
4 classes	12 hours	36 hours	48 hours

* almost all required classes in the MBS curriculum are 3 credits which meet for 3 hours each week.

There are 24 hours in a day.

We spend about 12 hours sleeping, eating, washing, and taking care of essentials.

That leaves 12 hours a day for a job, school, studying, family, exercise, socializing, entertainment, and leisure.

So, you have about 84 hours per week to do what you *need* to and *choose* to do.

Will you work full- or part-time?

Will you have caregiver responsibilities?

Will you devote significant time to sport or other activity?

Will you have a very long commute to campus?

Will you study for the MCATs during the semester?

Is there something else that might impede your studies?

Was your undergraduate science GPA below 3.2?

Do you want to get A's in all your classes?

the number of “yes” answers	the number of classes you should take your 1st semester	which path you should consider
0	3-4	Path 3 or 4
1	3	Path 2 or 3
2 or more	2	Path 1

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Our recommendation:

Take a lighter course load first,
then if you do well, increase it.

In the long run,
it is better to start slow and do well,
then to start too fast and do poorly.

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