Information about time modules for AA-001-2223

The proposed referral requests to add several time modules for laboratory classes on M, W, F, or combinations thereof.

Overall enrollment in lab classes by College is shown in Figure 1. Table 1 shows the highest enrollment labs (those with 200 or more students in Fall 2022) along with their prerequisites. Since Physics has PHY 1210/L, PHY 1220/L, PHY 1510/L and PHY 1520/L with very high enrollment, the need for better alignment between labs and 3-unit lectures is clear.

To see the issue that the Physics Department is concerned about, Figure 2 shows the laboratory times and the 3-unit lectures that are twice a week. You can see that the existing lab time modules for once-a-week labs conflict with 3 different lecture times, while the proposed lab time modules for once-a-week labs conflict with only 2 different lecture times. Looking at the twice-a-week labs, the existing modules conflict with 2 lectures, while the proposed modules conflict with only 1 lecture.

The most common existing time modules involving M, W, or Friday, or combinations thereof are shown in Figure 3, along with the requested new time modules. I only graphed 1-unit labs, and 3- and 4-unit lectures. Omitted are 2-unit labs and 1- or 2-unit lectures.

In discussions with College of Engineering, the lab time module of 9-11:50am was brought up. This additional request is added as an amendment to the referral, especially as Figure 1 shows that Science and Engineering are the two biggest users of lab time modules. To check on the feasibility of including the T and Th labs, I also graphed the most common T, Th time modules in Figure 4.

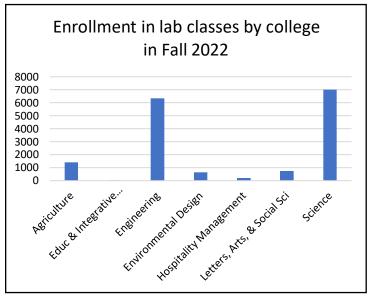


Figure 1

Finally, Figure 5 shows how labs are currently being scheduled, by day, time, and department.

High enrollment labs (more than 200							
students in Fall 2022) Enrollment in lab Count of Sum of							
classes	Section	Sum of Enrl	Co-requisite	Type of co reg			
	Jection	LIIII	co-requisite	Type of co-req			
ARO		220		4			
1011L	6	230	MAT 1140	4 unit lecture			
BIO							
1110L	23	513	BIO 1110	2 unit lecture			
1150L	12	287	BIO 1150	3 unit lecture			
1210L	15	347	BIO 1210	3 unit lecture			
1220L	12	277	BIO 1220	3 unit lecture			
2060L	10	240	BIO 2060	3 unit lecture			
CE							
1001L	9	253	CE 1001	1 unit lecture			
				3 unit lecture			
			CE 1011 and MAT	and 4 unit			
1011L	6	141	1140	lecture			
СНМ							
1210L	31	700	CHM 1210	3 unit lecture			
1220L	14	315	CHM 1220	3 unit lecture			
ECE							
1101L	9	213	ECE 1101	3 unit lecture			
EGR							
1000L	8	220	EGR 1000	2 unit lecture			
GSC							
3210L	8	200	GSC 3210	2 unit lecture			
ME							
1001L	7	271	none				
РНҮ							
1210L	15	308	PHY 1210	3 unit lecture			
1220L	10	214	PHY 1220	3 unit lecture			
1510L	27	627	PHY 1510	3 unit lecture			
1520L	24	552	PHY 1520	3 unit lecture			
Grand Total	255	6157					

Table 1

	Lecture 3 units twice a week, MW, WF, or MF	Laboratories	s, 1 unit once per wee	Laboratories, 1 unit twice per week, MW, MF, WF		
7:00:00 AM						
7:15:00 AM						
7:30:00 AM 7:45:00 AM						
8:00:00 AM						
8:15:00 AM						
8:30:00 AM					1/2 Lab 8-9:15	
8:45:00 AM						
9:00:00 AM						
9:15:00 AM		1/1 Lab 8-10:50				
9:30:00 AM						
9:45:00 AM 10:00:00 AM					1/2 Lab 9:30-10:45	
10:15:00 AM					1/2 200 5.50-10.45	
10:30:00 AM						
10:45:00 AM						
11:00:00 AM						
11:15:00 AM						
11:30:00 AM						
11:45:00 AM	3/2 Lecture 11:30-12:45					
12:15:00 PM 12:30:00 PM					1/2 Lab 12-1:15	
12:45:00 PM					1/2 Lab 12-1.15	
1:00:00 PM						
1:15:00 PM		1/1 Lab 12-2:50				
1:30:00 PM	3/2 Lecture 1:00-2:15					1/2 Lab 1-2:15
1:45:00 PM						
2:00:00 PM					1/2 Lab 1:30-2:45	
2:15:00 PM			1/1 Lab 1-3:50			
2:30:00 PM						
2:45:00 PM 3:00:00 PM	3/2 Lecture 2:30-3:45					1/2 Lab 2:30-3:45
3:15:00 PM						1/2 Ldb 2.30-3.45
3:30:00 PM					1/2 Lab 3-4:15	
3:45:00 PM					,	
4:00:00 PM						
4:15:00 PM		1/1 Lab 3-5:50				
4:30:00 PM	3/2 Lecture 4:00-5:15					1/2 Lab 4-5:15
4:45:00 PM						
5:00:00 PM					1/2 Lab 4:30-5:45	
5:15:00 PM				1/1 Lab 4-6:50		
5:30:00 PM 5:45:00 PM						
6:00:00 PM						1/2 Lab 5:30-6:45
6:15:00 PM			1/1 Lab 5-7:50			
6:30:00 PM					1/2 Lab 6:00-7:15	
6:45:00 PM						
7:00:00 PM						
7:15:00 PM		1/1 Lab 6-8:50				
7:30:00 PM						
7:45:00 PM 8:00:00 PM					1/2 Lab 7:30-8:45	
8:00:00 PM 8:15:00 PM				1/1 Lab 7-9:50	1/2 2007.50-0.45	
8:30:00 PM				_,		
8:45:00 PM						
9:00:00 PM						
9:15:00 PM						
9:30:00 PM					4	
9:45:00 PM						
10:00:00 PM					1	

Figure 2 -- Lab time modules compared to 3-unit lecture, twice a week, time modules. The proposed new lab time modules conflict with fewer of the lecture times.

AA-001-2223 Proposed new time	Existing time module	es are shown in pale c	olors, with different colors	for different types of	class.							
modules for labs on Mondays,	The notation "n/k Lecture" refers to an n-unit lecture that meets k times a week. For example, 3/2 lectures are 3 unit lectures that meet twice a week.											
Wednesdays, and Fridays	The darker shaded modules with double borders are the proposed new modules in the referral, and the darkest module (1/1 Lab 9-11:50) is an additional lab requested by EGR chairs.											
	Lecture 3 units 1 me W, o		Lecture 3 units twice a week, MW, WF, or MF	Lecture 3 units 3x per week, MWF or WF		Lecture 4 units 3x per week, MWF	Laboratories, 1 unit once per week, M, W, or F		k. M. W. or F	Laboratories, 1 unit twice per week, MW, MF, WF		
7:00:00 AM			,,						,	.,,,		,
7:15:00 AM 7:30:00 AM				3/3 Lecture, on the hour for 50 minutes			4/3 Lecture 7-8:05					
7:45:00 AM 8:00:00 AM												
8:15:00 AM				3/3 Lecture, on the								
8:30:00 AM 8:45:00 AM				hour for 50 minutes			4/3 Lecture 8:15- 9:20				1/2 Lab 8-9:15	
9:00:00 AM												
9:15:00 AM 9:30:00 AM				3/3 Lecture, on the hour for 50 minutes				1/1 Lab 8-10:50				
9:45:00 AM 10:00:00 AM							4/3 Lecture 9:30- 10:35		1/1 Lab 9:00am-		1/2 Lab 9:30-10:45	
10:15:00 AM				3/3 Lecture, on the			10.35		11:50am (friendly amendment from		1/2 Lab 9.30-10.45	
10:30:00 AM 10:45:00 AM				hour for 50 minutes					COE)			
11:00:00 AM							4/3 Lecture 10:45-					
11:15:00 AM 11:30:00 AM				3/3 Lecture, on the hour for 50 minutes			11:50					
11:45:00 AM				nour for 50 mildres								
12:00:00 PM 12:15:00 PM			3/2 Lecture 11:30-12:45	3/3 Lecture, on the	4/2 Lecture, 11-		4/3 Lecture 12:00-					
12:30:00 PM				hour for 50 minutes			1:05				1/2 Lab 12-1:15	
12:45:00 PM 1:00:00 PM												
1:15:00 PM			2/2/	3/3 Lecture, on the			4/21	1/1 Lab 12-2:50				1/21-64.2-45
1:30:00 PM 1:45:00 PM			3/2 Lecture 1:00-2:15	hour for 50 minutes			4/3 Lecture 1:15- 2:20					1/2 Lab 1-2:15
2:00:00 PM 2:15:00 PM	3/1 Lecture, 1:00-										1/2 Lab 1:30-2:45	
2:15:00 PM 2:30:00 PM	3:45			3/3 Lecture, on the hour for 50 minutes	4/2 Lecture, 1-2:50				1/1 Lab 1-3:50			
2:45:00 PM			3/2 Lecture 2:30-3:45				4/3 Lecture 2:30- 3:35					1/2 Lab 2:30-3:45
3:00:00 PM 3:15:00 PM			3/2 Lecture 2:30-3:45	3/3 Lecture, on the			3:35					1/2 Lab 2:30-3:45
3:30:00 PM 3:45:00 PM		3/1 Lecture 2:30-		hour for 50 minutes							1/2 Lab 3-4:15	
4:00:00 PM		5:15					4/3 Lecture 3:45-					
4:15:00 PM 4:30:00 PM			3/2 Lecture 4:00-5:15	3/3 Lecture, on the	4/2 Lecture, 3-4:50		4:50	1/1 Lab 3-5:50				1/2 Lab 4-5:15
4:45:00 PM			5/2 Lecture 4.00-5.15	nour for 50 minutes	4/2 Lecture, 3-4.50							1/2 180 4-5.15
5:00:00 PM 5:15:00 PM	3/1 Lecture 4-6:45			3/3 Lecture, on the						1/1 Lab 4-6:50	1/2 Lab 4:30-5:45	
5:30:00 PM	5,1 2000104 0.45			hour for 50 minutes			4/3 Lecture 5-6:05			1/1 200 4 0.00		
5:45:00 PM 6:00:00 PM			3/2 Lecture 5:30-6:45									1/2 Lab 5:30-6:45
6:15:00 PM			-,	3/3 Lecture, on the					1/1 Lab 5-7:50			,
6:30:00 PM 6:45:00 PM		3/1 Lecture 5:30-		hour for 50 minutes	4/2 Lecture, 5-6:50		4/3 Lecture 6:15- 7:20				1/2 Lab 6:00-7:15	
7:00:00 PM		8:15						1 (1) = h C 0.5 0				
7:15:00 PM 7:30:00 PM			3/2 Lecture 7:00-8:15	3/3 Lecture, on the hour for 50 minutes		4/2 Lecture, 6-7:50		1/1 Lab 6-8:50				
7:45:00 PM							4/3 Lecture 7:30-				1/21-5-7-20.0	
8:00:00 PM 8:15:00 PM				3/3 Lecture, on the			8:35			1/1 Lab 7-9:50	1/2 Lab 7:30-8:45	
8:30:00 PM	9:45				4/2 Lecture, 7-8:50							
8:45:00 PM 9:00:00 PM			3/2 Lecture 8:30-9:45				4/3 Lecture 8:45-					
9:15:00 PM 9:30:00 PM				3/3 Lecture, on the hour for 50 minutes		4/2 Lecture, 8-9:50	9:50					
9:45:00 PM				nour for 50 minutes		4/2 Lecture, 8-9:50				-		
10:00:00 PM												

Figure 3: Existing time modules for M, W, F (or combinations of M, W, F) along with proposed additions in darker shading Omitted are 1- and 2-unit lectures, 2-unit labs, and activity classes..

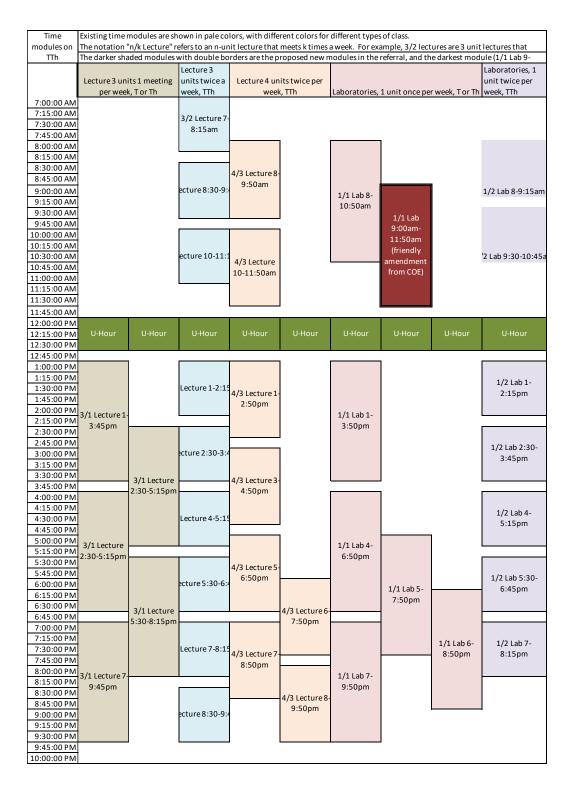


Figure 4 -- Most common T, Th, and TTh time modules, with additional requested 9-11:50 laboratory module shown in darker shade. Omitted are 1- and 2-unit lectures, 2-unit labs, and activity courses.

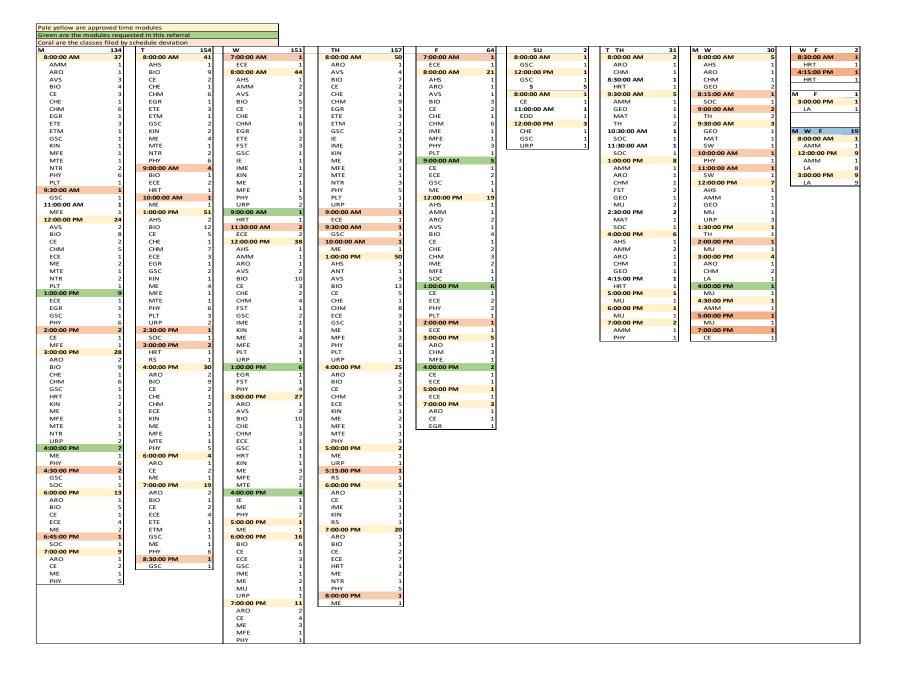


Figure 5 -- Existing usage of 1-unit lab times and schedule deviations.