

State	High school	2-year school	4-year school	Vocational or technical school	University with grad component	Other	Grand Total
Alabama					3		3
Arizona		10			1		11
California		5					5
Colorado		1				1	2
Delaware					1		1
Florida		2			1		3
Georgia		1			2		3
Idaho			1				1
Illinois		1					1
Indiana		2					2
Kansas		3					3
Kentucky					2		2
Maryland		1					1
Massachusetts		1			1		2
Michigan		2					2
Minnesota		2	1		4		7
Missouri		2			1		3
Montana		1	1				2
Nebraska			2		1		3
New Jersey	1						1
New Mexico		2	1				3
New York		3		1	1		5
Ohio		1				1	2
Oklahoma					1		1
Oregon		2					2
Pennsylvania			2		3		5
Tennessee					1		1
Texas		9	1		3		13

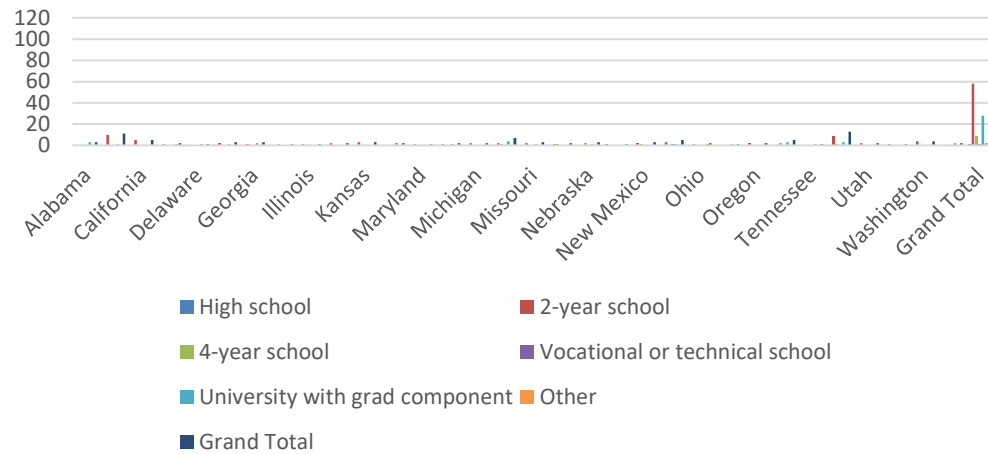
Utah		2					2
Virginia		1					1
Washington		4					4
Wisconsin					2		2
Grand Total	1	58	9	1	28	2	99

Region	High school	2-year school	4-year school	ional or technical	ity with grad com	Other	Grand Total
Central		10	1		7	1	19
Eastern	1	6	2	1	6		16
Southern		12	1		13		26
Western		30	5		2	1	38
Grand Total	1	58	9	1	28	2	99

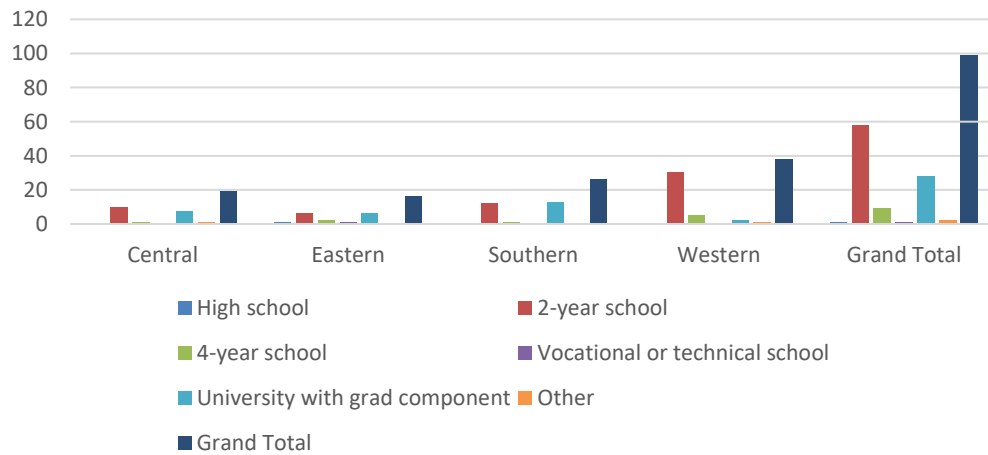
Region	High school	2-year school	4-year school	ional or technical	ity with grad com	Other
Grand Total	1	58	9	1	28	2

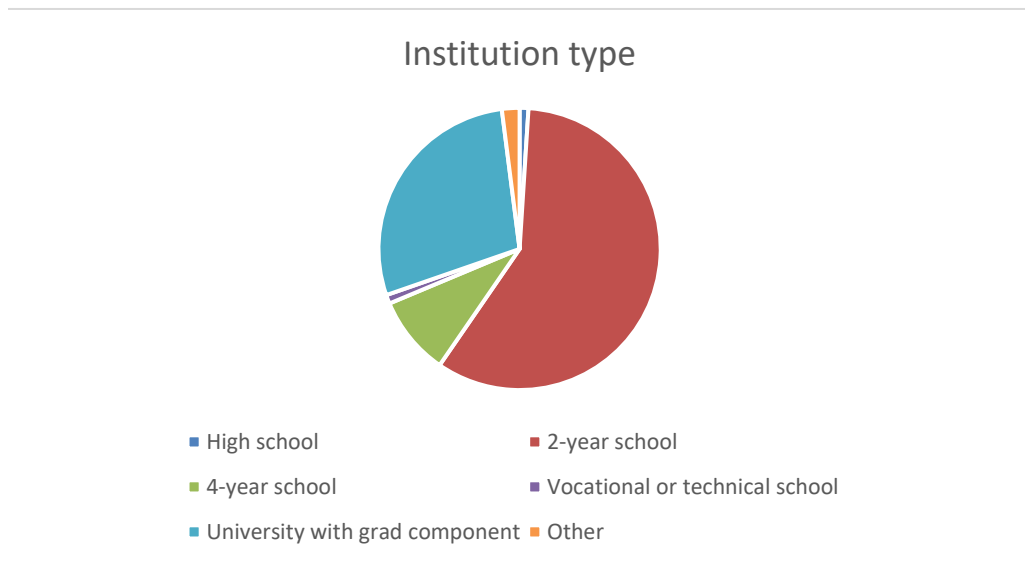
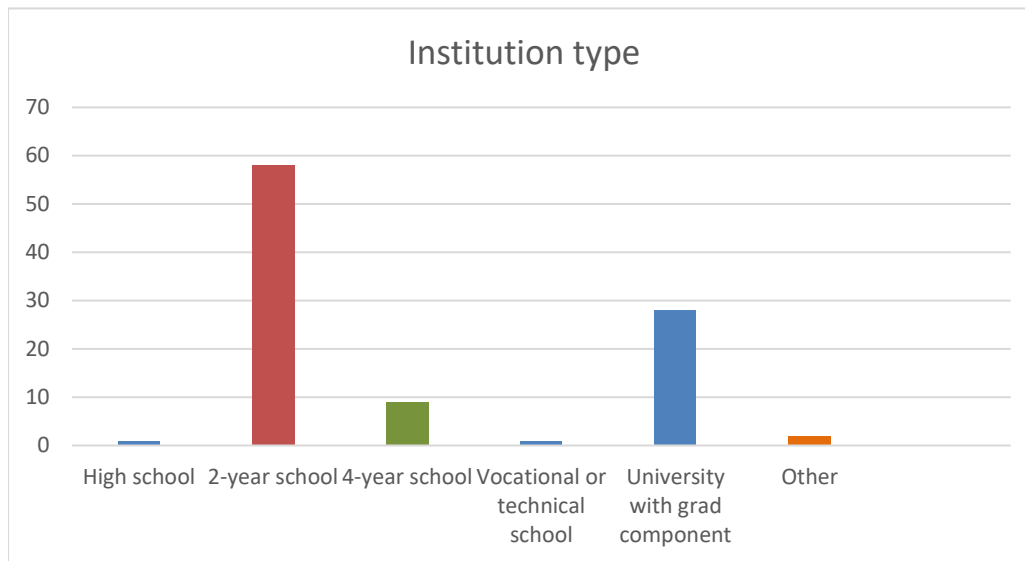
Region	High school	2-year school	4-year school	ional or technical	ity with grad com	Other
Grand Total	1	58	9	1	28	2

### Institution type (by State)



### Institution type (by Region)





State	1 term anatomy & physiology course	1 term physiology only course	multi-term anatomy & physiology course	Other	Grand Total
Alabama			2	1	3
Arizona	2	1	8		11
California		3	1	1	5
Colorado	1		1		2
Delaware			1		1
Florida	1		2		3
Georgia			2	1	3
Idaho			1		1
Illinois			1		1
Indiana			2		2
Kansas		1	2		3
Kentucky			2		2
Maryland	1				1
Massachusetts	1			1	2
Michigan			2		2
Minnesota	1	2	3	1	7
Missouri		1	1	1	3
Montana			2		2
Nebraska		2	1		3
New Jersey			1		1
New Mexico			2	1	3
New York			5		5
Ohio			2		2
Oklahoma		1			1
Oregon			2		2
Pennsylvania		1	3	1	5
Tennessee			1		1
Texas	3	1	9		13

Utah		2			2
Virginia			1		1
Washington	2		1	1	4
Wisconsin			2		2
<b>Grand Total</b>	<b>12</b>	<b>15</b>	<b>63</b>	<b>9</b>	<b>99</b>

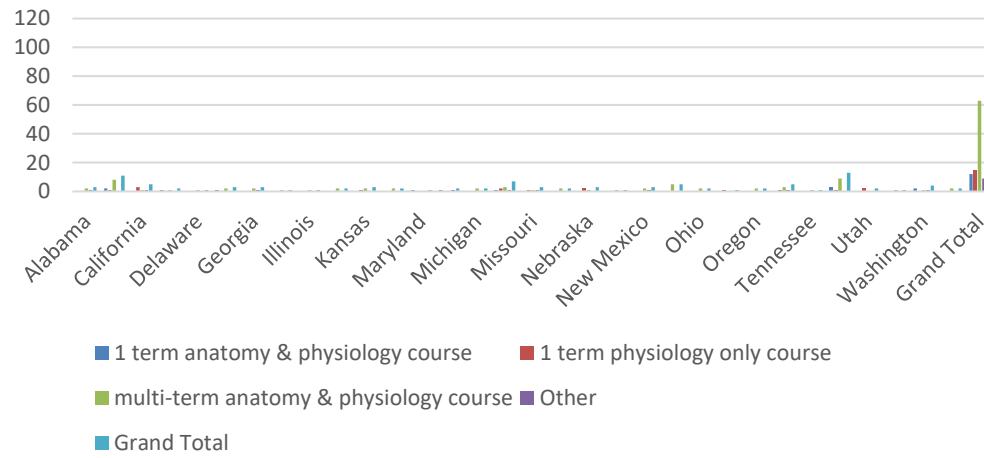
<b>Region</b>	<b>1 term anatomy &amp; physiology course</b>	<b>1 term physiology only course</b>	<b>multi-term anatomy &amp; physiology course</b>	<b>Other</b>	<b>Grand Total</b>
Central	1	3	13	2	19
Eastern	2	1	11	2	16
Southern	4	2	18	2	26
Western	5	9	21	3	38
<b>Grand Total</b>	<b>12</b>	<b>15</b>	<b>63</b>	<b>9</b>	<b>99</b>

<b>Region</b>	<b>1 term anatomy &amp; physiology course</b>	<b>1 term physiology only course</b>	<b>multi-term anatomy &amp; physiology course</b>	<b>Other</b>
<b>Grand Total</b>	<b>12</b>	<b>15</b>	<b>63</b>	<b>9</b>

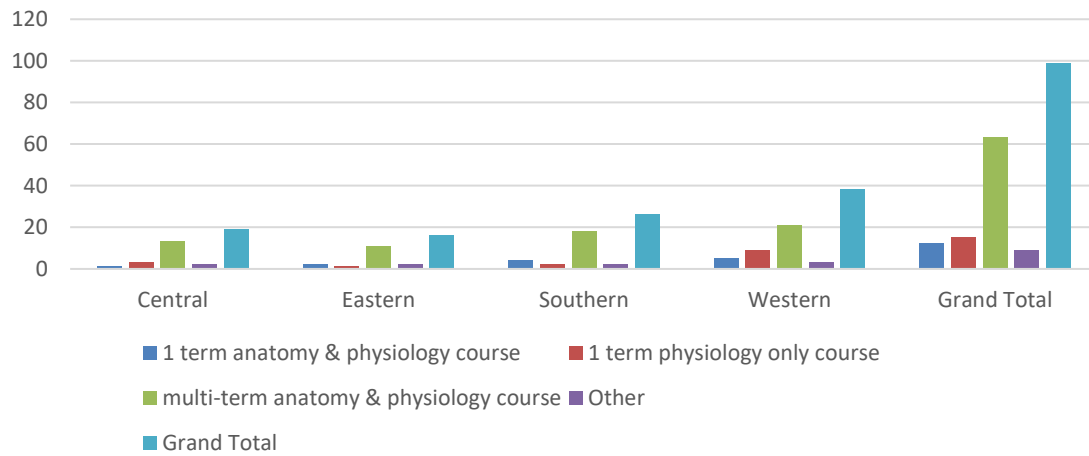
<b>Region</b>	<b>1 term anatomy &amp; physiology course</b>	<b>1 term physiology only course</b>	<b>multi-term anatomy &amp; physiology course</b>	<b>Other</b>
<b>Grand Total</b>	<b>12</b>	<b>15</b>	<b>63</b>	<b>9</b>



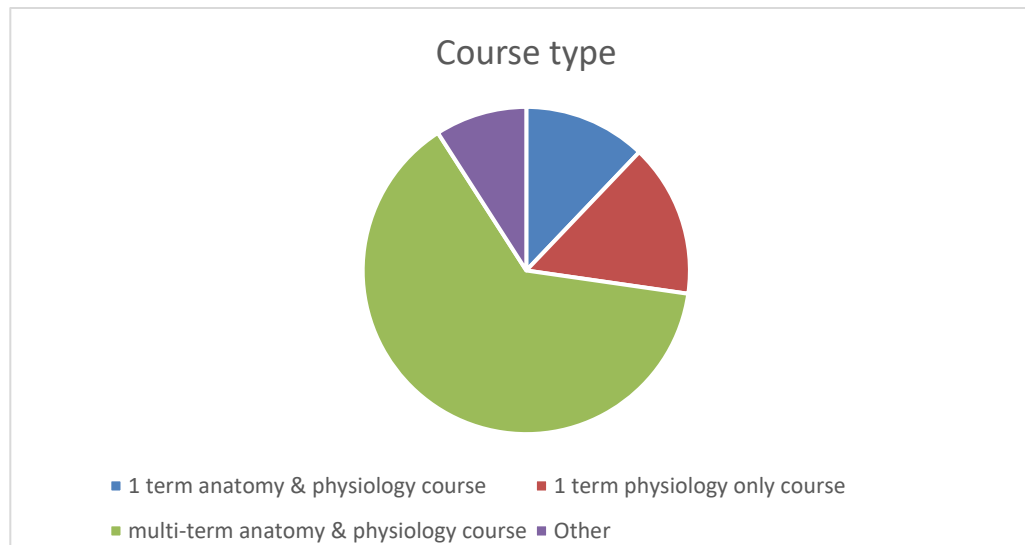
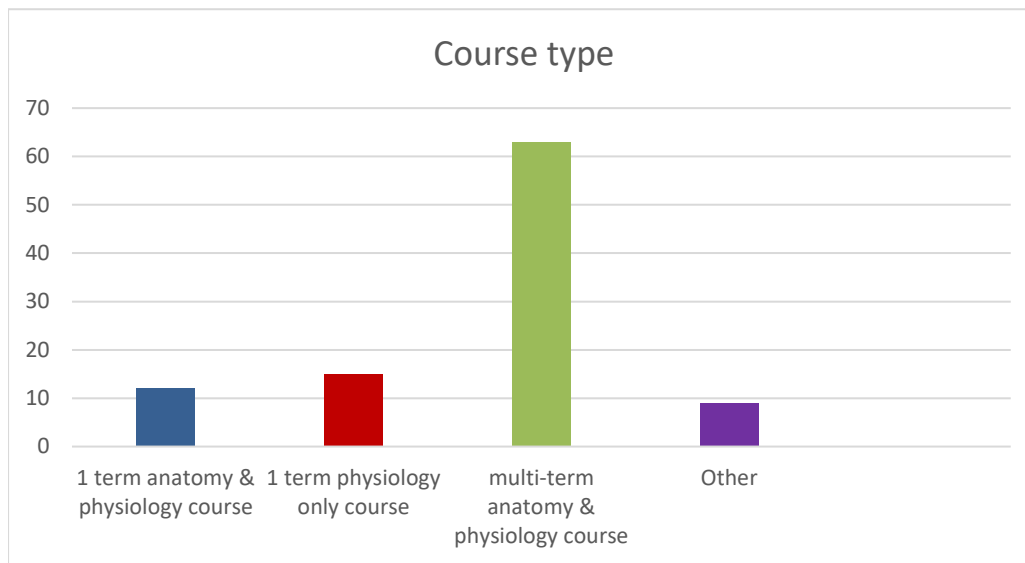
### Course type (by State)



### Course type (by Region)







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Most of the courses surveyed are multi-term A&P courses.

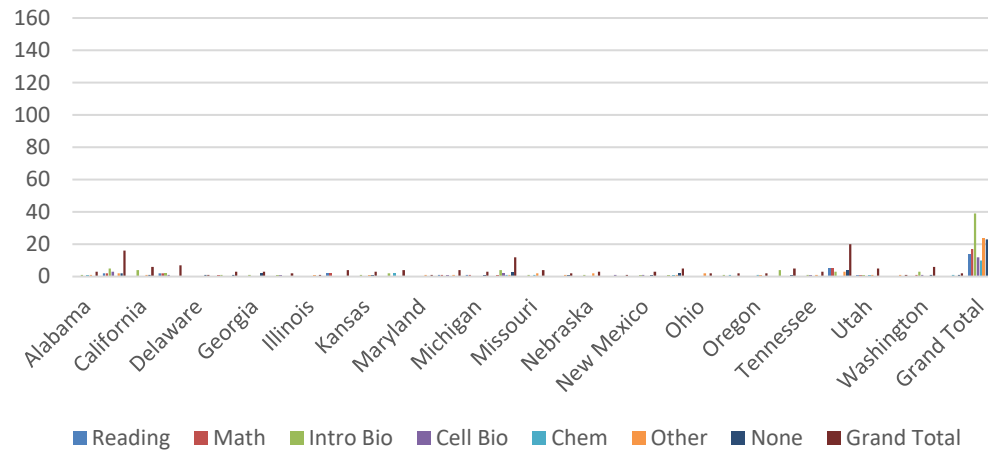
State	Reading	Math	Intro Bio	Cell Bio	Chem	Other	None	Grand Total
Alabama			1		1	1		3
Arizona	2	2	5	3		2	2	16
California			4			1	1	6
Colorado	2	2	2	1				7
Delaware							1	1
Florida		1	1				1	3
Georgia			1				2	3
Idaho			1	1				2
Illinois						1		1
Indiana	2	2						4
Kansas			1			1	1	3
Kentucky			2		2			4
Maryland						1		1
Massachusetts	1	1		1		1		4
Michigan	1	1					1	3
Minnesota		1	4	2	1	1	3	12
Missouri			1		1	2		4
Montana						1	1	2
Nebraska			1			2		3
New Jersey				1				1
New Mexico			1	1			1	3
New York			1		1	1	2	5
Ohio						2		2
Oklahoma			1		1			2
Oregon					1	1		2
Pennsylvania			4				1	5
Tennessee			1	1		1		3
Texas	5	5	3			3	4	20
Utah	1	1	1		1	1		5
Virginia						1		1
Washington		1	3	1			1	6

Wisconsin					1		1	2
<b>Grand Total</b>	<b>14</b>	<b>17</b>	<b>39</b>	<b>12</b>	<b>10</b>	<b>24</b>	<b>23</b>	<b>139</b>

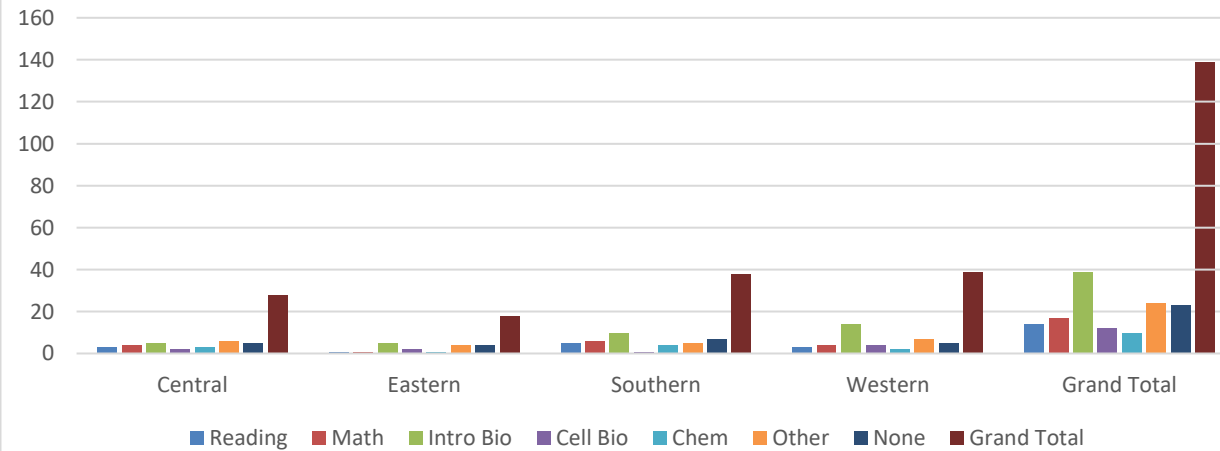
<b>Region</b>	<b>Reading</b>	<b>Math</b>	<b>Intro Bio</b>	<b>Cell Bio</b>	<b>Chem</b>	<b>Other</b>	<b>None</b>	<b>Grand Total</b>
Central	3	4	5	2	3	6	5	28
Eastern	1	1	5	2	1	4	4	18
Southern	5	6	10	1	4	5	7	38
Western	3	4	14	4	2	7	5	39
<b>Grand Total</b>	<b>14</b>	<b>17</b>	<b>39</b>	<b>12</b>	<b>10</b>	<b>24</b>	<b>23</b>	<b>139</b>

<b>Prereq</b>	<b>Reading</b>	<b>Math</b>	<b>Intro Bio</b>	<b>Cell Bio</b>	<b>Chem</b>	<b>Other</b>	<b>None</b>
<b>Grand Total</b>	<b>14</b>	<b>17</b>	<b>39</b>	<b>12</b>	<b>10</b>	<b>24</b>	<b>23</b>

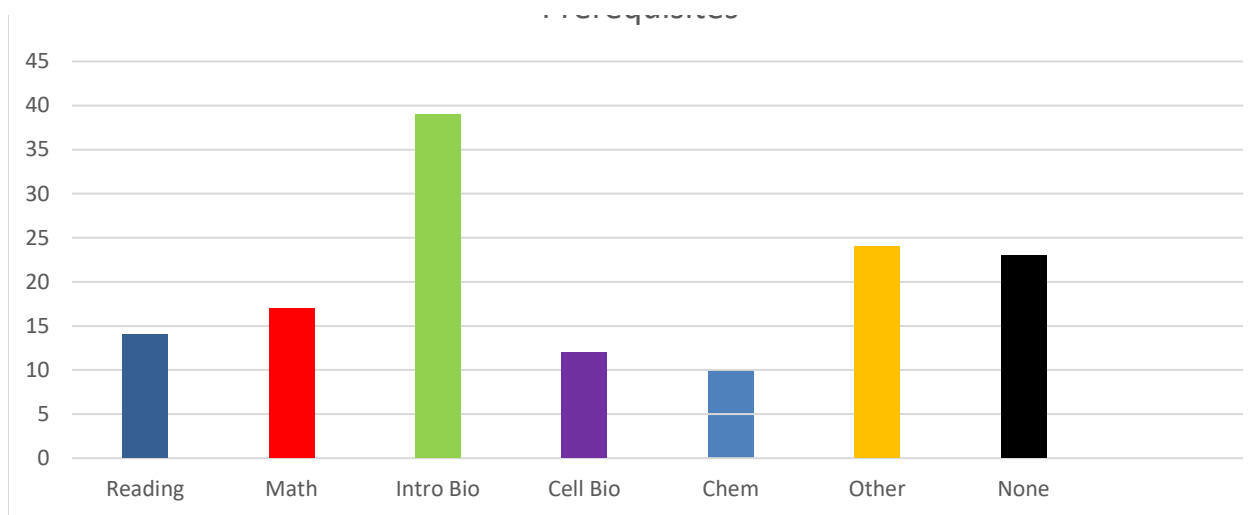
### Prerequisites (by State)



### Prerequisites (by Region)



Prerequisites



80% of the courses have some kind of prerequisite.

Some courses have multiple prerequisites.

State	Lecture and lab are co-registered and occur in the same time block	Lecture and lab are co-registered, but scheduled at different times	Lecture and lab are separate courses	No lab component to the course	Grand Total
Alabama		2		1	3
Arizona	5	5	1		11
California		5			5
Colorado	1	1			2
Delaware		1			1
Florida			3		3
Georgia			3		3
Idaho		1			1
Illinois		1			1
Indiana	2				2
Kansas	1	1	1		3
Kentucky			2		2
Maryland		1			1
Massachusetts		2			2
Michigan	2				2
Minnesota		6	1		7
Missouri	1	2			3
Montana	1	1			2
Nebraska	1	2			3
New Jersey	1				1
New Mexico		3			3
New York		4	1		5
Ohio		2			2
Oklahoma		1			1
Oregon		2			2
Pennsylvania	1	3	1		5
Tennessee				1	1

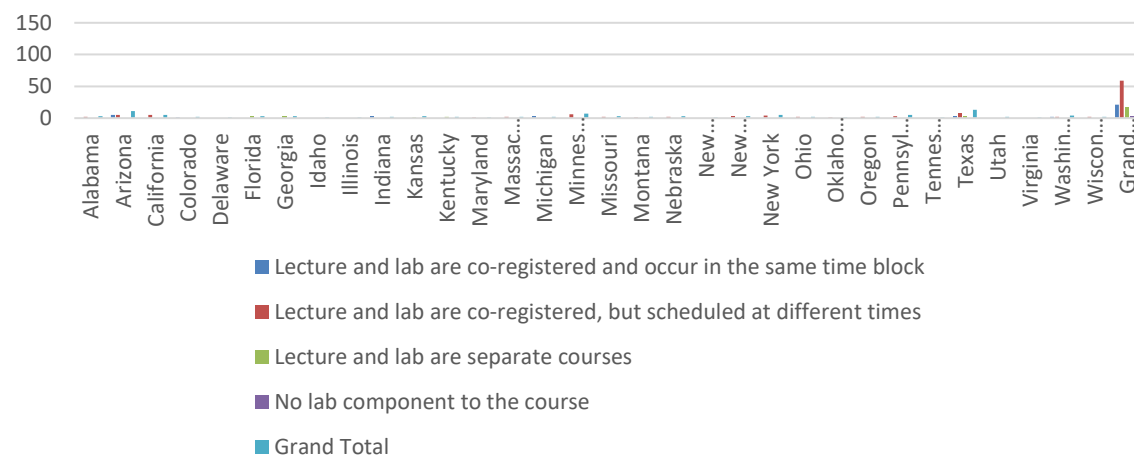
Texas	3	7	3		13
Utah		1	1		2
Virginia		1			1
Washington	2	2			4
Wisconsin		2			2
<b>Grand Total</b>	<b>21</b>	<b>59</b>	<b>17</b>	<b>2</b>	<b>99</b>

<b>Region</b>	<b>Lecture and lab are co-registered and occur in the same time block</b>	<b>Lecture and lab are co-registered, but scheduled at different times</b>	<b>Lecture and lab are separate courses</b>	<b>No lab component to the course</b>	<b>Grand Total</b>
Central	5	13	1		19
Eastern	2	12	2		16
Southern	3	10	11	2	26
Western	11	24	3		38
<b>Grand Total</b>	<b>21</b>	<b>59</b>	<b>17</b>	<b>2</b>	<b>99</b>

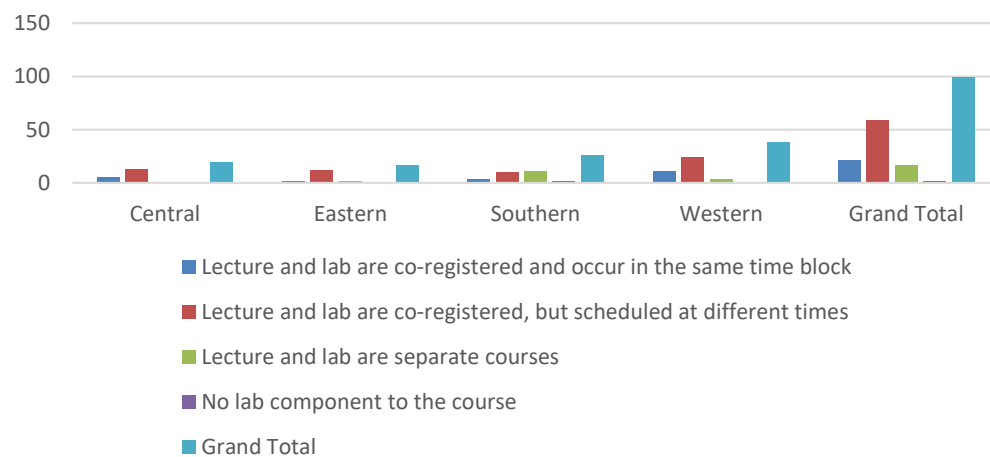
<b>Lecture/Lab</b>	<b>Lecture and lab are co-registered and occur in the same time block</b>	<b>Lecture and lab are co-registered, but scheduled at different times</b>	<b>Lecture and lab are separate courses</b>	<b>No lab component to the course</b>
<b>Grand Total</b>	<b>21</b>	<b>59</b>	<b>17</b>	<b>2</b>

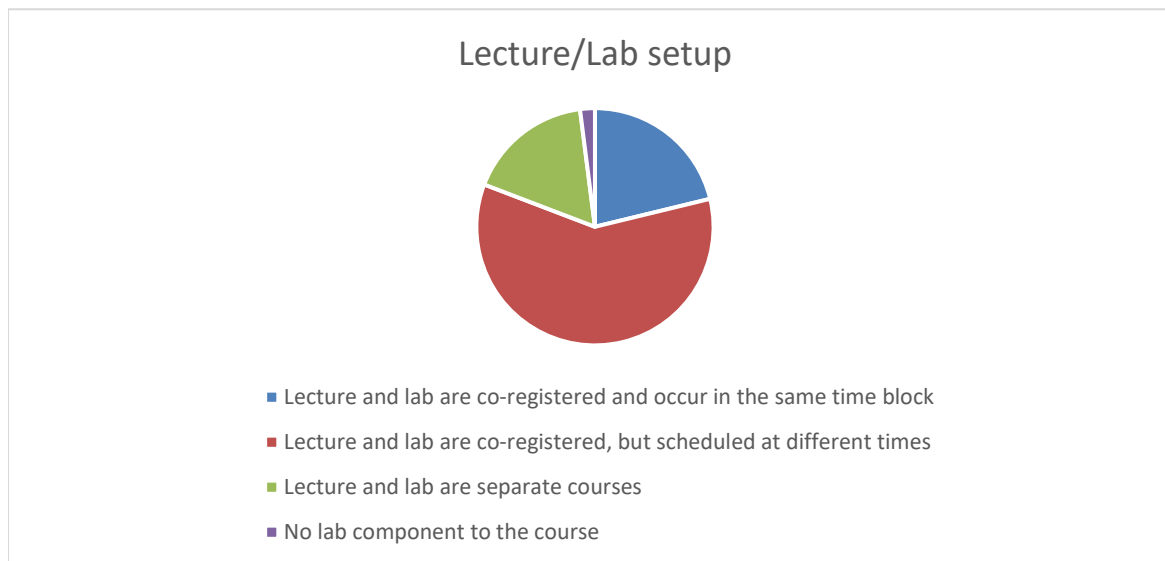
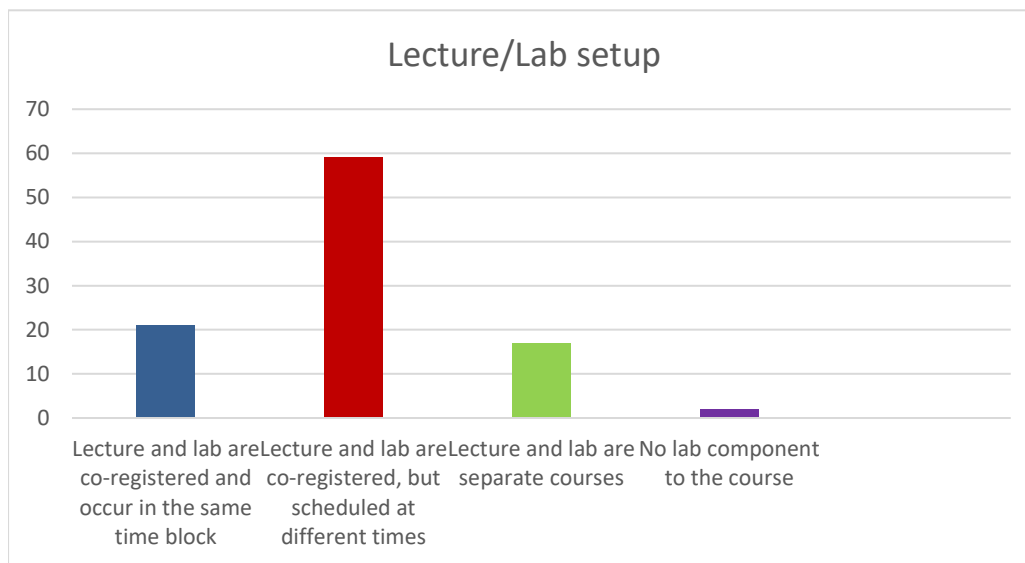


### Lecture/Lab setup (by State)



### Lecture/Lab setup (by Region)



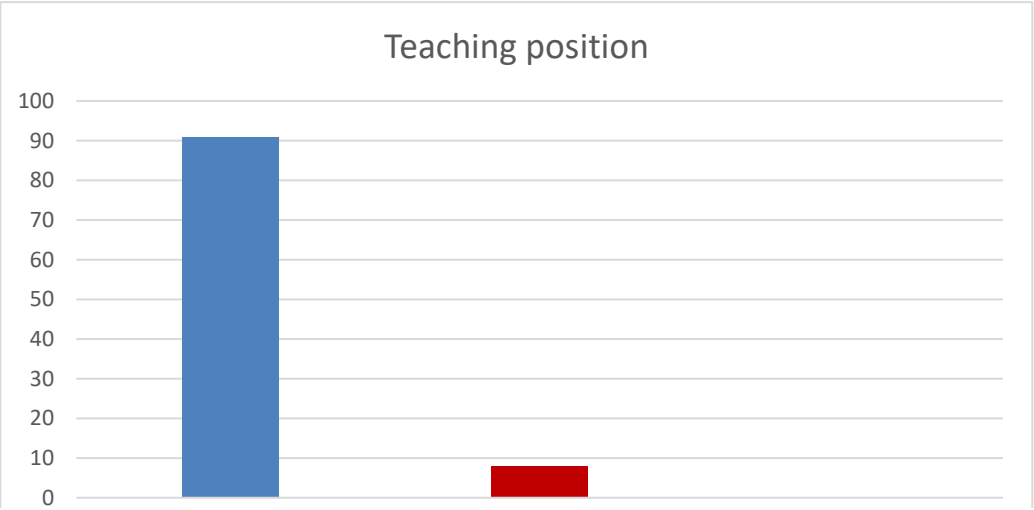
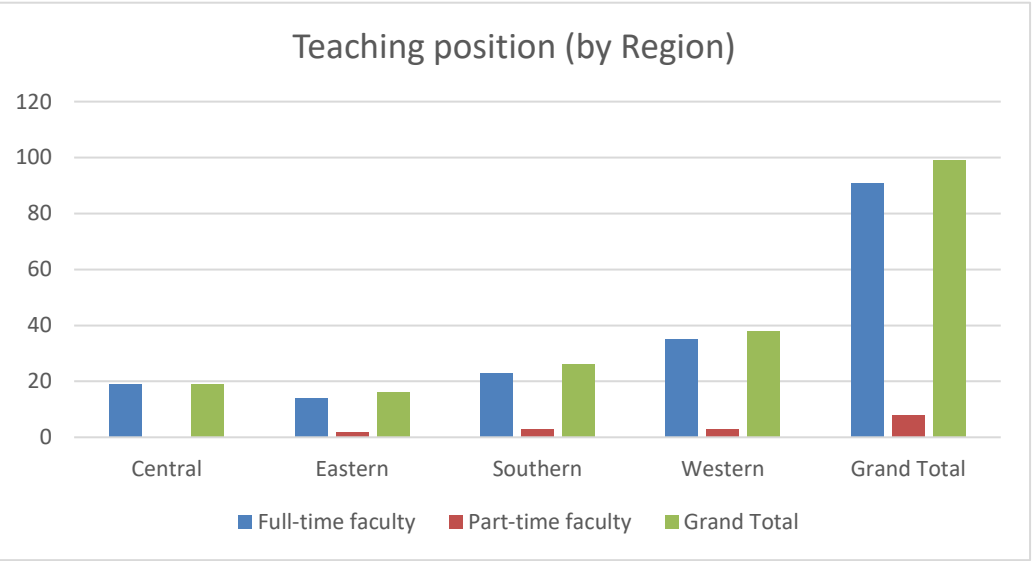
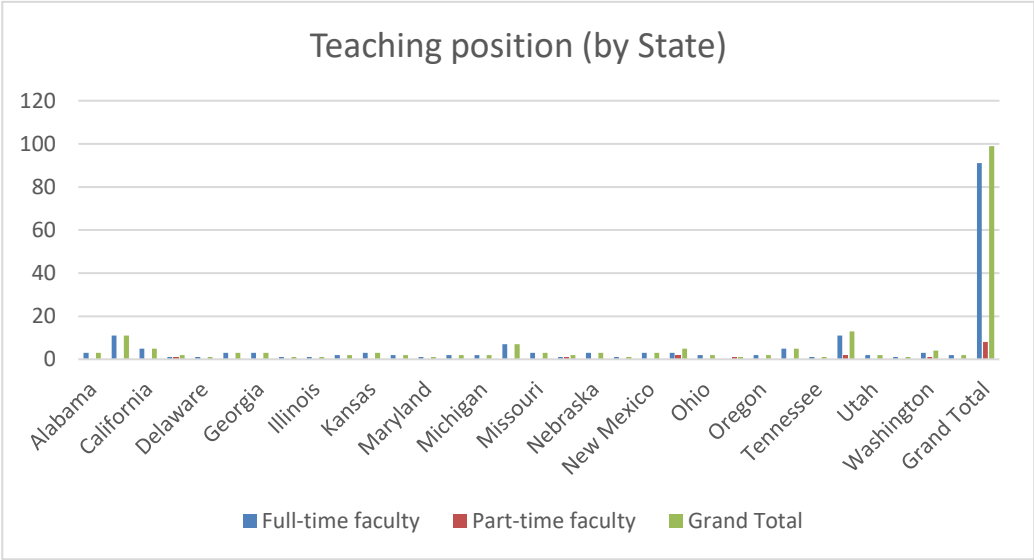


Most courses are co-registered.  
There is diversity in scheduling lecture and lab.

State	Full-time faculty	Part-time faculty	Grand Total
Alabama	3		3
Arizona	11		11
California	5		5
Colorado	1	1	2
Delaware	1		1
Florida	3		3
Georgia	3		3
Idaho	1		1
Illinois	1		1
Indiana	2		2
Kansas	3		3
Kentucky	2		2
Maryland	1		1
Massachusetts	2		2
Michigan	2		2
Minnesota	7		7
Missouri	3		3
Montana	1	1	2
Nebraska	3		3
New Jersey	1		1
New Mexico	3		3
New York	3	2	5
Ohio	2		2
Oklahoma		1	1
Oregon	2		2
Pennsylvania	5		5
Tennessee	1		1
Texas	11	2	13
Utah	2		2
Virginia	1		1
Washington	3	1	4
Wisconsin	2		2
<b>Grand Total</b>	<b>91</b>	<b>8</b>	<b>99</b>

Region	Full-time faculty	Part-time faculty	Grand Total
Central	19		19
Eastern	14	2	16
Southern	23	3	26
Western	35	3	38
<b>Grand Total</b>	<b>91</b>	<b>8</b>	<b>99</b>

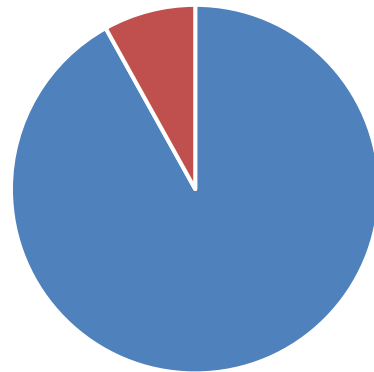
Teaching pos.	Full-time faculty	Part-time faculty
Grand Total	91	8



Full-time faculty

Part-time faculty

### Teaching position



■ Full-time faculty ■ Part-time faculty

Most of the respondents are full-time faculty.

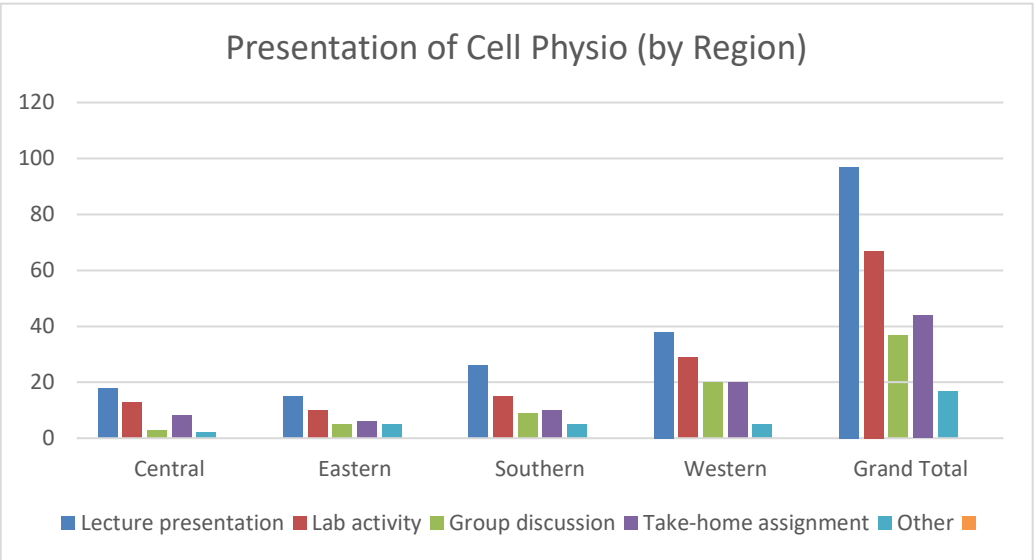
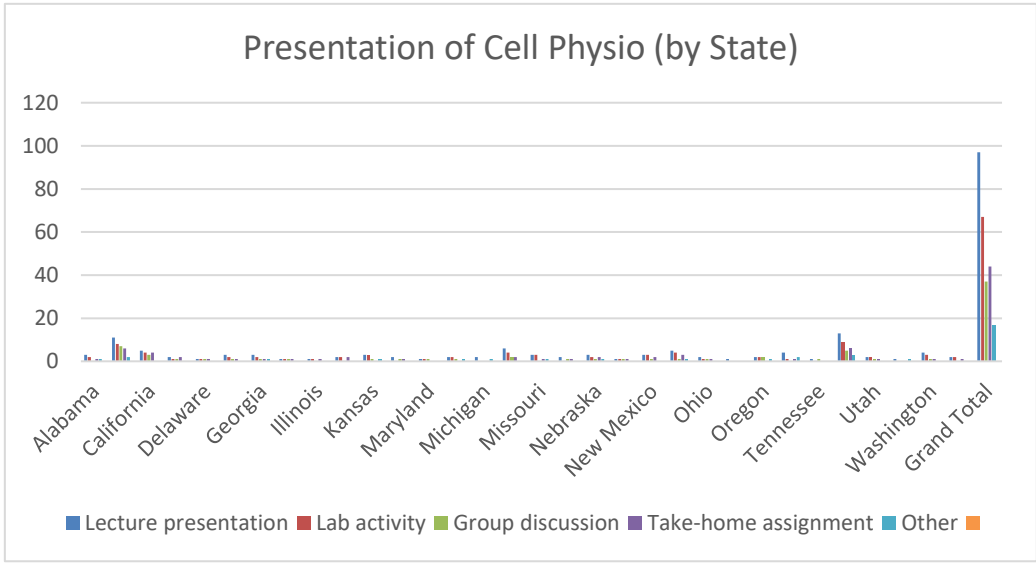
State	Lecture presentation	Lab activity	Group discussion	Take-home assignment	Other
Alabama	3	2		1	1
Arizona	11	8	7	6	2
California	5	4	3	4	
Colorado	2	1	1	2	
Delaware	1	1	1	1	
Florida	3	2	1	1	
Georgia	3	2	1	1	1
Idaho	1	1	1	1	
Illinois	1	1		1	
Indiana	2	2		2	
Kansas	3	3	1		1
Kentucky	2		1	1	
Maryland	1	1	1		
Massachusetts	2	2	1		1
Michigan	2				1
Minnesota	6	4	2	2	
Missouri	3	3		1	1
Montana	2		1	1	
Nebraska	3	2	1	2	1
New Jersey	1	1	1	1	
New Mexico	3	3	1	2	
New York	5	4	1	3	1
Ohio	2	1	1	1	
Oklahoma	1				
Oregon	2	2	2		1
Pennsylvania	4	1		1	2
Tennessee	1		1		
Texas	13	9	5	6	3
Utah	2	2	1	1	

Virginia	1				1
Washington	4	3	1	1	
Wisconsin	2	2		1	
<b>Grand Total</b>	<b>97</b>	<b>67</b>	<b>37</b>	<b>44</b>	<b>17</b>

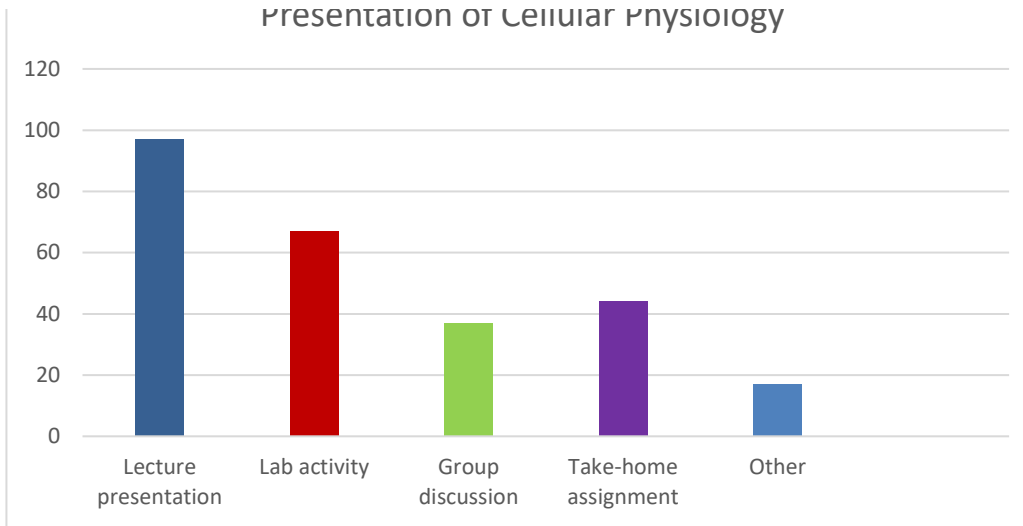
<b>Region</b>	<b>Lecture presentation</b>	<b>Lab activity</b>	<b>Group discussion</b>	<b>Take-home assignment</b>	<b>Other</b>
Central	18	13	3	8	2
Eastern	15	10	5	6	5
Southern	26	15	9	10	5
Western	38	29	20	20	5
<b>Grand Total</b>	<b>97</b>	<b>67</b>	<b>37</b>	<b>44</b>	<b>17</b>

<b>Presented</b>	<b>Lecture presentation</b>	<b>Lab activity</b>	<b>Group discussion</b>	<b>Take-home assignment</b>	<b>Other</b>
<b>Grand Total</b>	<b>97</b>	<b>67</b>	<b>37</b>	<b>44</b>	<b>17</b>





Presentation of Cellular Physiology



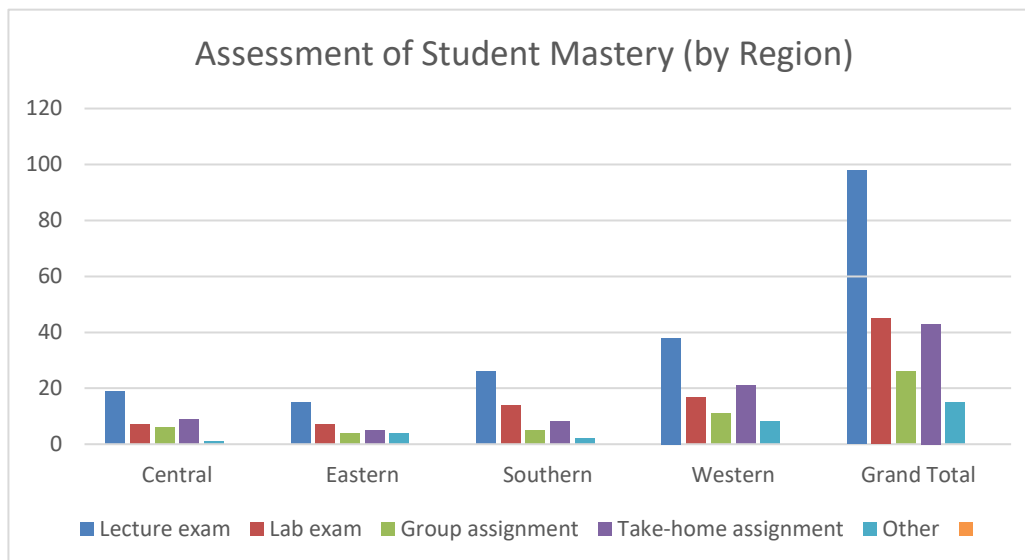
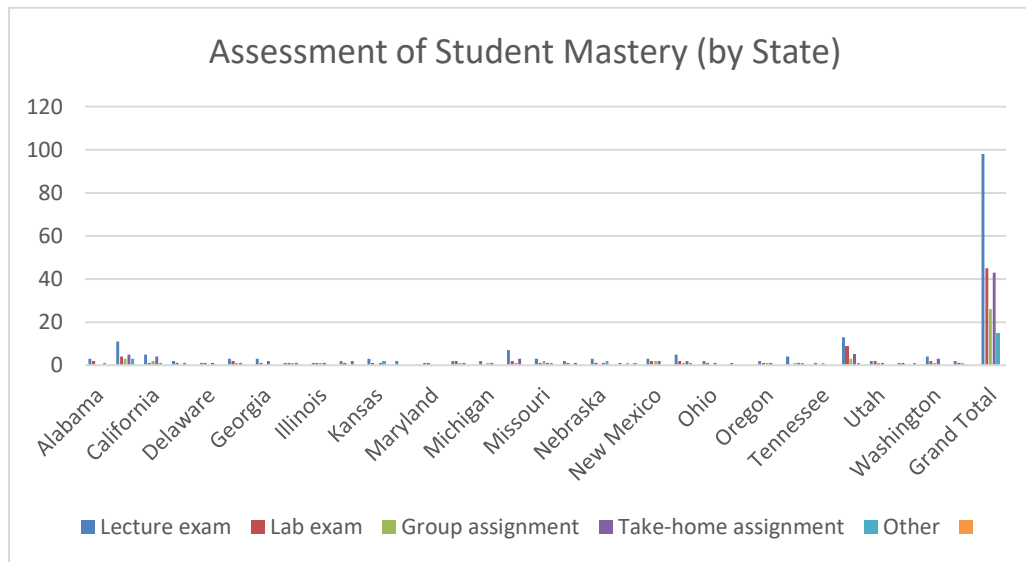
Cellular physiology (specifically membrane transport) is covered in some way.

State	Lecture exam	Lab exam	Group assignment	Take-home assignment	Other
Alabama	3	2			1
Arizona	11	4	3	5	3
California	5	1	2	4	1
Colorado	2	1		1	
Delaware	1	1		1	
Florida	3	2	1	1	
Georgia	3	1		2	
Idaho	1	1	1	1	
Illinois	1	1	1	1	
Indiana	2	1		2	
Kansas	3	1		1	2
Kentucky	2				
Maryland	1	1			
Massachusetts	2	2	1	1	
Michigan	2		1	1	
Minnesota	7	2	1	3	
Missouri	3	1	2	1	1
Montana	2	1		1	
Nebraska	3	1		1	2
New Jersey	1		1		1
New Mexico	3	2	2	2	
New York	5	2	1	2	1
Ohio	2	1		1	
Oklahoma	1				
Oregon	2	1	1	1	
Pennsylvania	4		1	1	1
Tennessee	1		1		
Texas	13	9	3	5	1
Utah	2	2	1	1	

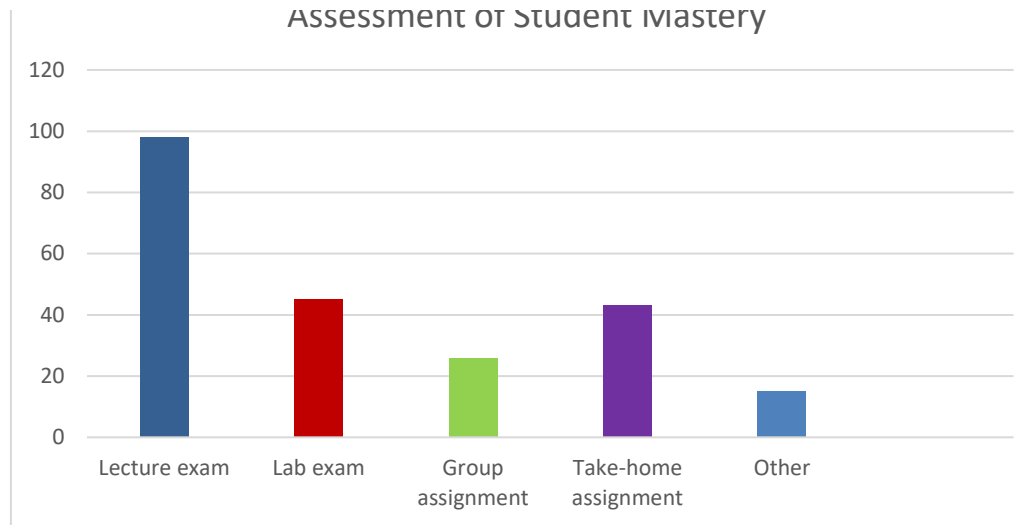
Virginia	1	1			1
Washington	4	2	1	3	
Wisconsin	2	1	1		
<b>Grand Total</b>	<b>98</b>	<b>45</b>	<b>26</b>	<b>43</b>	<b>15</b>

<b>Region</b>	<b>Lecture exam</b>	<b>Lab exam</b>	<b>Group assignment</b>	<b>Take-home assignment</b>	<b>Other</b>
Central	19	7	6	9	1
Eastern	15	7	4	5	4
Southern	26	14	5	8	2
Western	38	17	11	21	8
<b>Grand Total</b>	<b>98</b>	<b>45</b>	<b>26</b>	<b>43</b>	<b>15</b>

<b>Mastery</b>	<b>Lecture exam</b>	<b>Lab exam</b>	<b>Group assignment</b>	<b>Take-home assignment</b>	<b>Other</b>
<b>Grand Total</b>	<b>98</b>	<b>45</b>	<b>26</b>	<b>43</b>	<b>15</b>



Assessment of Student Mastery



Most assessment is through lecture exams.

<b>State</b>	<b>Face to Face (F2F) lecture only, no lab</b>	<b>Online lecture only, no lab</b>	<b>Hybrid (combination of F2F and online) lecture, no lab</b>	<b>F2F lecture, F2F lab</b>
Alabama	1		3	2
Arizona			11	10
California	1		5	4
Colorado			2	2
Delaware			1	1
Florida			3	3
Georgia			3	3
Idaho	1		1	
Illinois			1	1
Indiana	1		2	1
Kansas		1	3	2
Kentucky			2	2
Maryland			1	1
Massachusetts			2	2
Michigan			2	2
Minnesota	2		7	4
Missouri			3	3
Montana			2	2
Nebraska			3	3
New Jersey			1	1
New Mexico	1		3	2
New York	1		5	4
Ohio			2	2
Oklahoma			1	1
Oregon			2	2
Pennsylvania	1		5	4
Tennessee	1		1	
Texas	2		13	11
Utah			2	2
Virginia			1	1
Washington			4	4
Wisconsin			2	2
<b>Grand Total</b>	<b>12</b>	<b>1</b>	<b>99</b>	<b>84</b>

<b>Region</b>	<b>Face to Face (F2F) lecture only, no lab</b>	<b>Online lecture only, no lab</b>	<b>Hybrid (combination of F2F and online) lecture, no lab</b>	<b>F2F lecture, F2F lab</b>
---------------	----------------------------------------------------	----------------------------------------	-----------------------------------------------------------------------	-----------------------------

Central	3	0	19	15
Eastern	2	0	16	14
Southern	4	0	26	22
Western	3	1	38	33
<b>Grand Total</b>	<b>12</b>	<b>1</b>	<b>99</b>	<b>84</b>

	Face to Face (F2F) lecture only, no lab	Online lecture only, no lab	Hybrid (combination of F2F and online) lecture, no lab	F2F lecture, F2F lab
<b>Pre-COVID</b>				
<b>Grand Total</b>	<b>12</b>	<b>1</b>	<b>99</b>	<b>84</b>

	Face to Face (F2F) lecture only, no lab	Online lecture only, no lab	Hybrid (combination of F2F and online) lecture, no lab	F2F lecture, F2F lab
<b>Pre-COVID</b>				
<b>Grand Total</b>	<b>12</b>	<b>1</b>	<b>99</b>	<b>84</b>



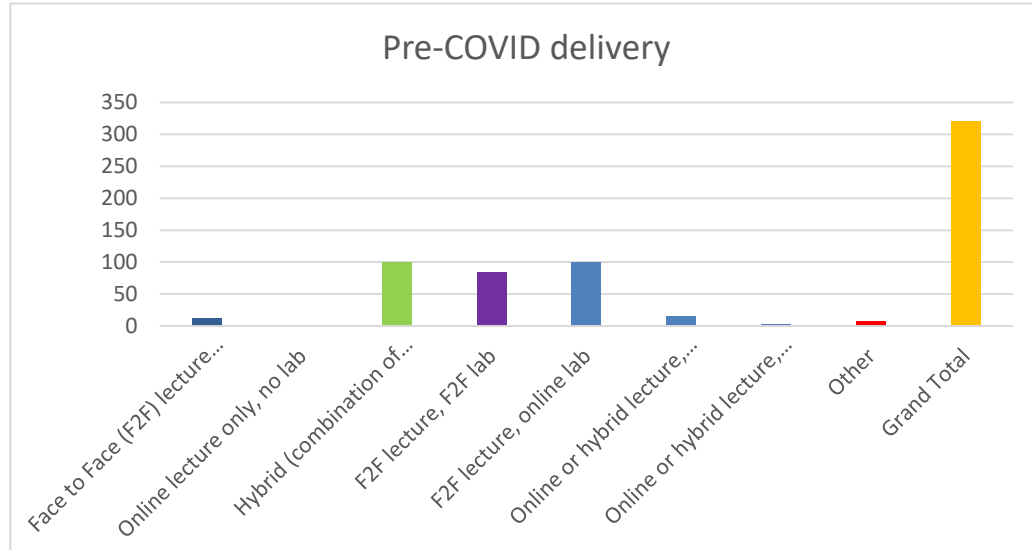
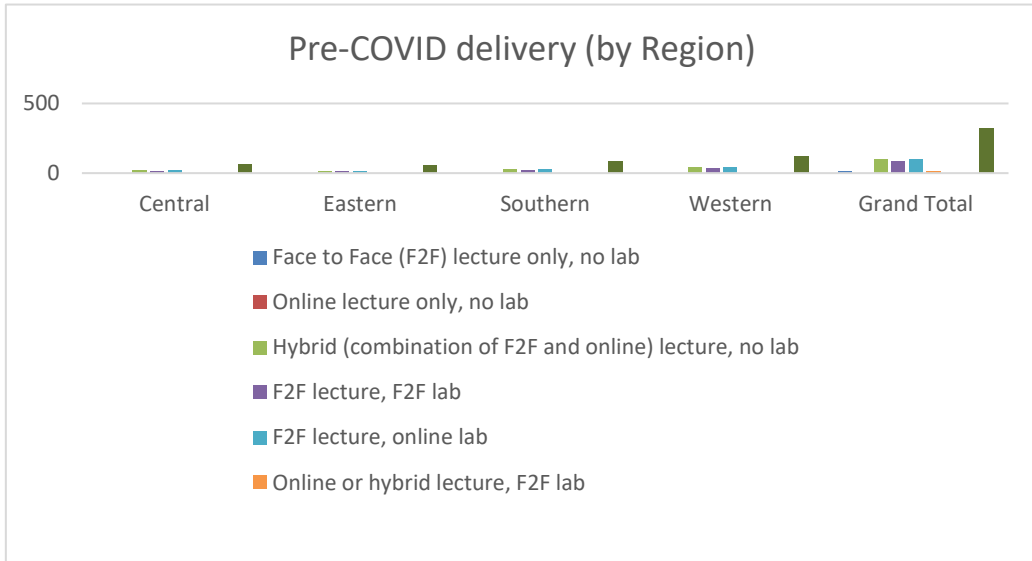
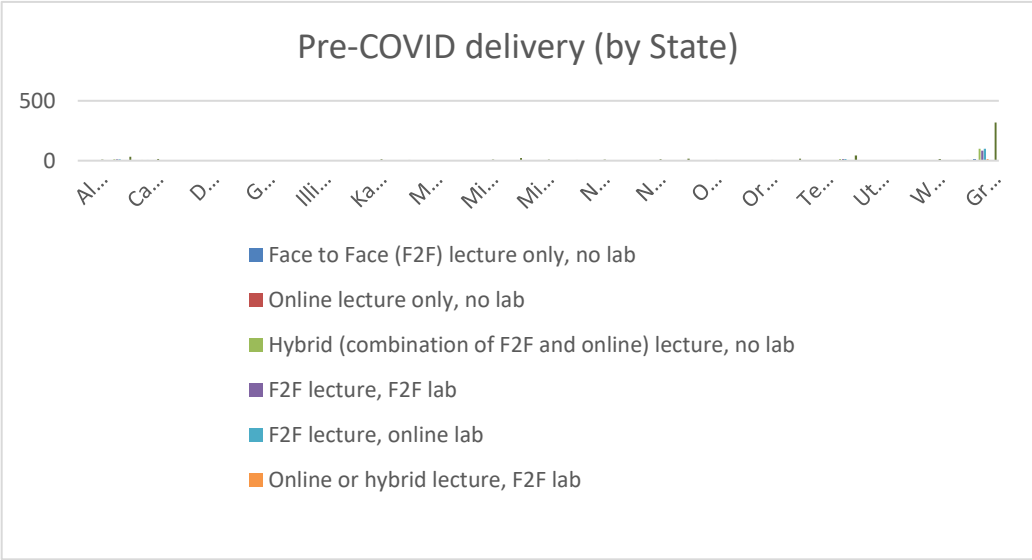
<b>F2F lecture, online lab</b>	<b>Online or hybrid lecture, F2F lab</b>	<b>Online or hybrid lecture, online lab</b>	<b>Other</b>	<b>Grand Total</b>
3				9
11	1		1	34
5				15
2				6
1				3
3				9
3				9
1				3
1				3
2				6
3			1	10
2			1	7
1	1			4
2				6
2	2	1		9
7	1		1	22
3				9
2				6
3				9
1				3
3	1		1	11
5	1	1		17
2				6
1				3
2	1			7
5		1		16
1				3
13	5			44
2			1	7
1				3
4	2			14
2			1	7
<b>99</b>	<b>15</b>	<b>3</b>	<b>7</b>	<b>320</b>

<b>F2F lecture, online lab</b>	<b>Online or hybrid lecture, F2F lab</b>	<b>Online or hybrid lecture, online lab</b>	<b>Other</b>	<b>Grand Total</b>
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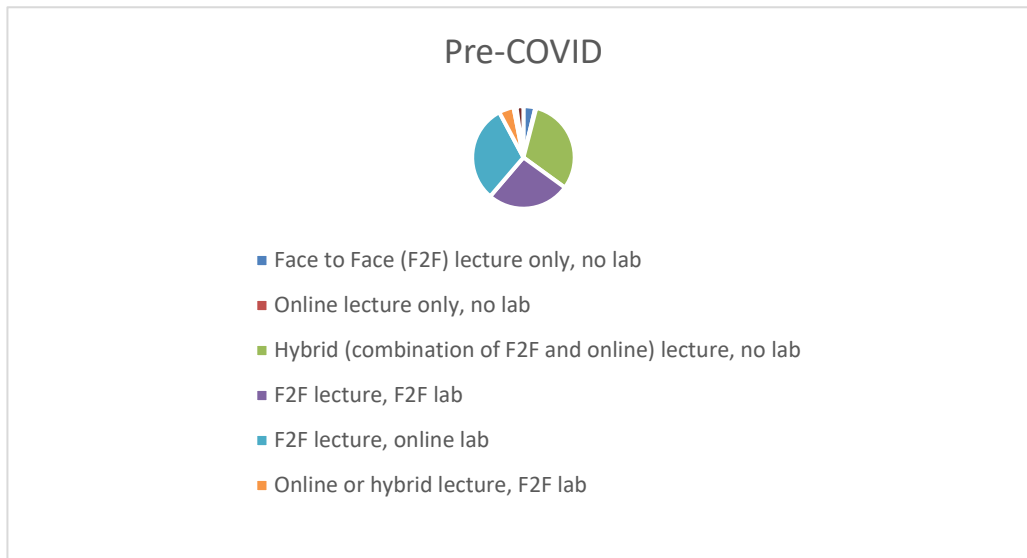
19	3	1	2	62
16	2	2	0	52
26	5	0	1	84
38	5	0	4	122
<b>99</b>	<b>15</b>	<b>3</b>	<b>7</b>	<b>320</b>

<b>F2F lecture, online lab</b>	<b>Online or hybrid lecture, F2F lab</b>	<b>Online or hybrid lecture, online lab</b>	<b>Other</b>	<b>Grand Total</b>
<b>99</b>	<b>15</b>	<b>3</b>	<b>7</b>	<b>320</b>

<b>F2F lecture, online lab</b>	<b>Online or hybrid lecture, F2F lab</b>	<b>Online or hybrid lecture, online lab</b>	<b>Other</b>
<b>99</b>	<b>15</b>	<b>3</b>	<b>7</b>



Most courses, pre-COVID, were F2F.



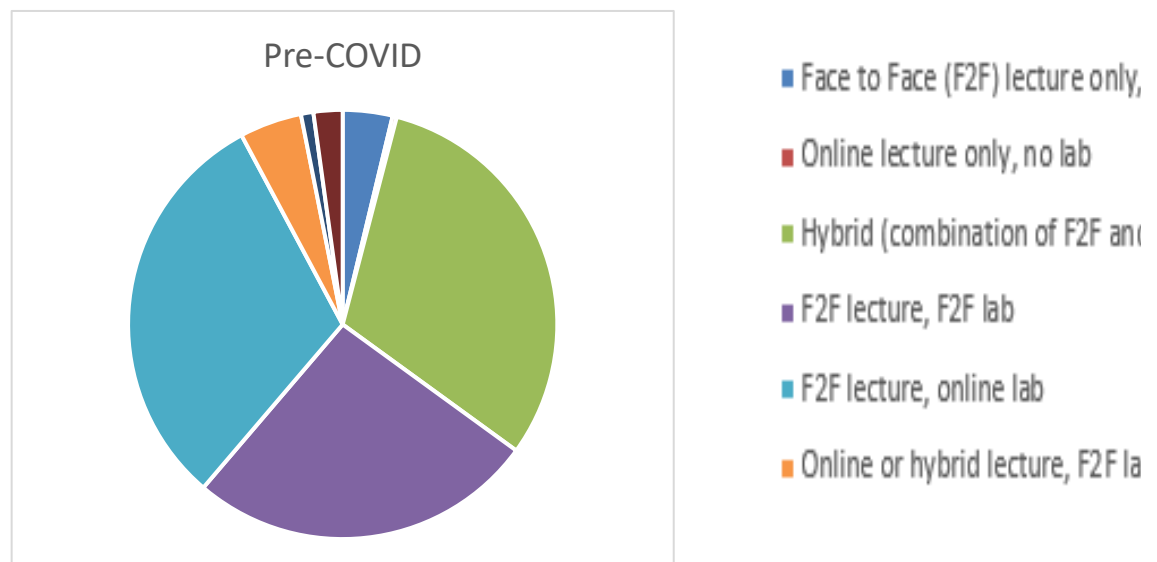
<b>State</b>	<b>Face to Face (F2F) lecture only, no lab</b>	<b>Online lecture only, no lab</b>	<b>Hybrid (combination of F2F and online) lecture, no lab</b>	<b>F2F lecture, F2F lab</b>
Alabama	3			
Arizona	11			1
California	5			
Colorado	2			
Delaware	1		1	1
Florida	3			
Georgia	3			1
Idaho	1			
Illinois	1			
Indiana	2			1
Kansas	3	1		
Kentucky	2			
Maryland	1			
Massachusetts	2			
Michigan	2			
Minnesota	7	2		
Missouri	3			
Montana	2			1
Nebraska	3			1
New Jersey	1			
New Mexico	3			1
New York	5			
Ohio	2			
Oklahoma	1			
Oregon	2			
Pennsylvania	5	1		
Tennessee	1	1		
Texas	13	2	1	1
Utah	2			1
Virginia	1		1	
Washington	4	1		
Wisconsin	2			
<b>Grand Total</b>	<b>99</b>	<b>8</b>	<b>3</b>	<b>9</b>

<b>Region</b>	<b>Face to Face (F2F) lecture only, no lab</b>	<b>Online lecture only, no lab</b>	<b>Hybrid (combination of F2F and online) lecture, no lab</b>	<b>F2F lecture, F2F lab</b>
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Central	19	2	0	1
Eastern	16	1	2	1
Southern	26	3	1	2
Western	38	2	0	5
<b>Grand Total</b>	<b>99</b>	<b>8</b>	<b>3</b>	<b>9</b>

	Face to Face (F2F) lecture only, no lab	Online lecture only, no lab	Hybrid (combination of F2F and online) lecture, no lab	F2F lecture, F2F lab
<b>Height of COVID</b>				
<b>Grand Total</b>	<b>99</b>	<b>8</b>	<b>3</b>	<b>9</b>

	Face to Face (F2F) lecture only, no lab	Online lecture only, no lab	Hybrid (combination of F2F and online) lecture, no lab	F2F lecture, F2F lab
<b>Height of COVID</b>				
<b>Grand Total</b>	<b>99</b>	<b>8</b>	<b>3</b>	<b>9</b>

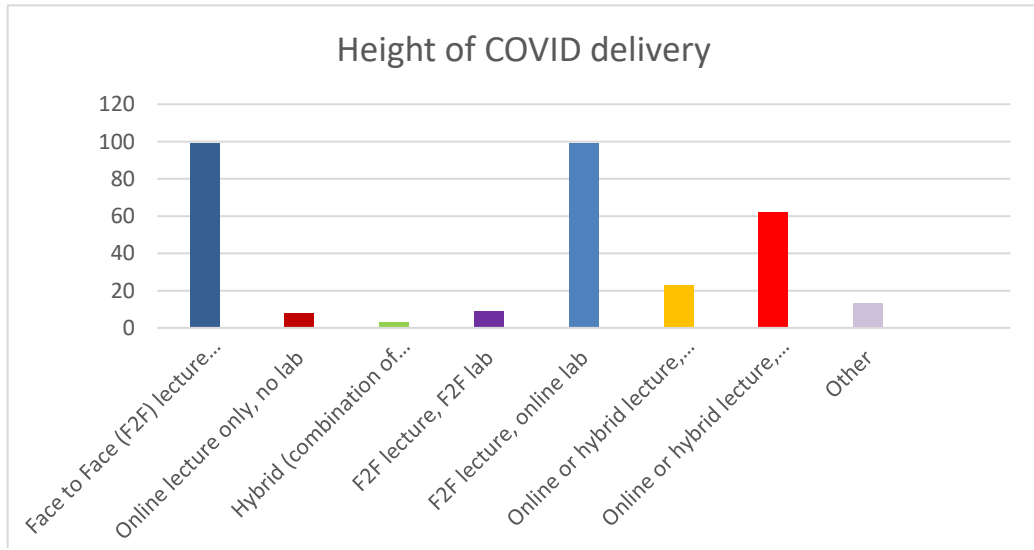
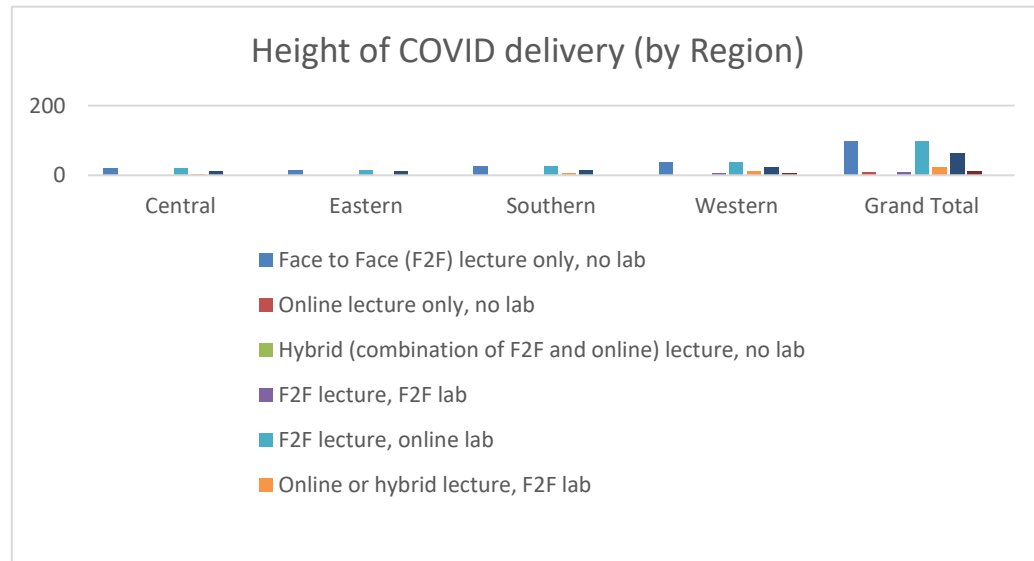
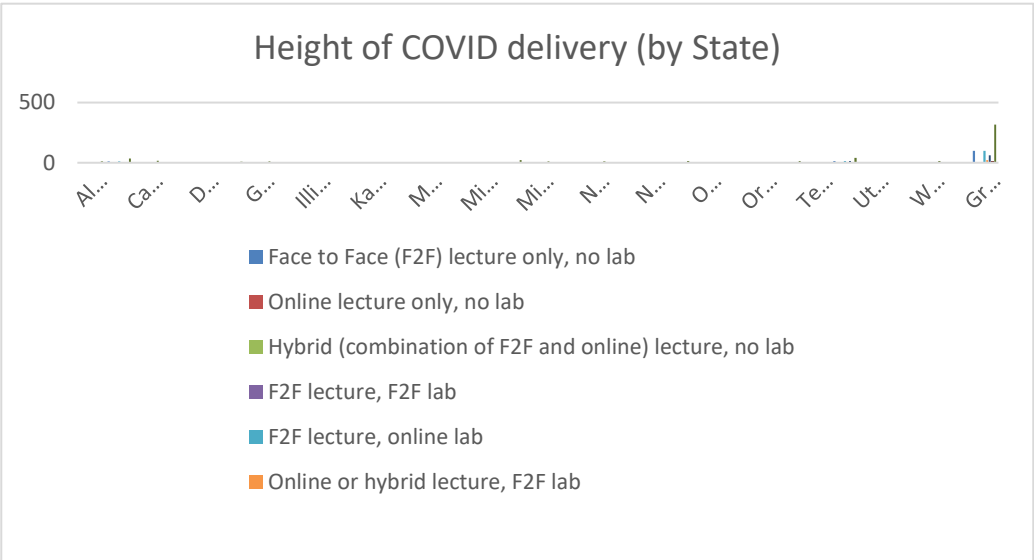


<b>F2F lecture, online lab</b>	<b>Online or hybrid lecture, F2F lab</b>	<b>Online or hybrid lecture, online lab</b>	<b>Other</b>	<b>Grand Total</b>
3	1	2	1	10
11	5	5	3	36
5	2	5		17
2		2		6
1				4
3	2	1		9
3	2	2		11
1	1			3
1			1	3
2	1	1		7
3		1	1	9
2			2	6
1		1		3
2		2		6
2		2		6
7		4	1	21
3	1	2	1	10
2			1	6
3	1	3	1	12
1		1		3
3	1	1		9
5		5		15
2	1	1		6
1		1		3
2	1	1	1	7
5	1	3		15
1				3
13	1	10		41
2		1		6
1		1		4
4	1	3		13
2	1	1		6
<b>99</b>	<b>23</b>	<b>62</b>	<b>13</b>	<b>316</b>

<b>F2F lecture, online lab</b>	<b>Online or hybrid lecture, F2F lab</b>	<b>Online or hybrid lecture, online lab</b>	<b>Other</b>
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There were still F2F lectures during COVID.  
Very few F2F labs during COVID.

