



Curriculum Alignment 2014

PARTNERSHIPS FOR STUDENT SUCCESS

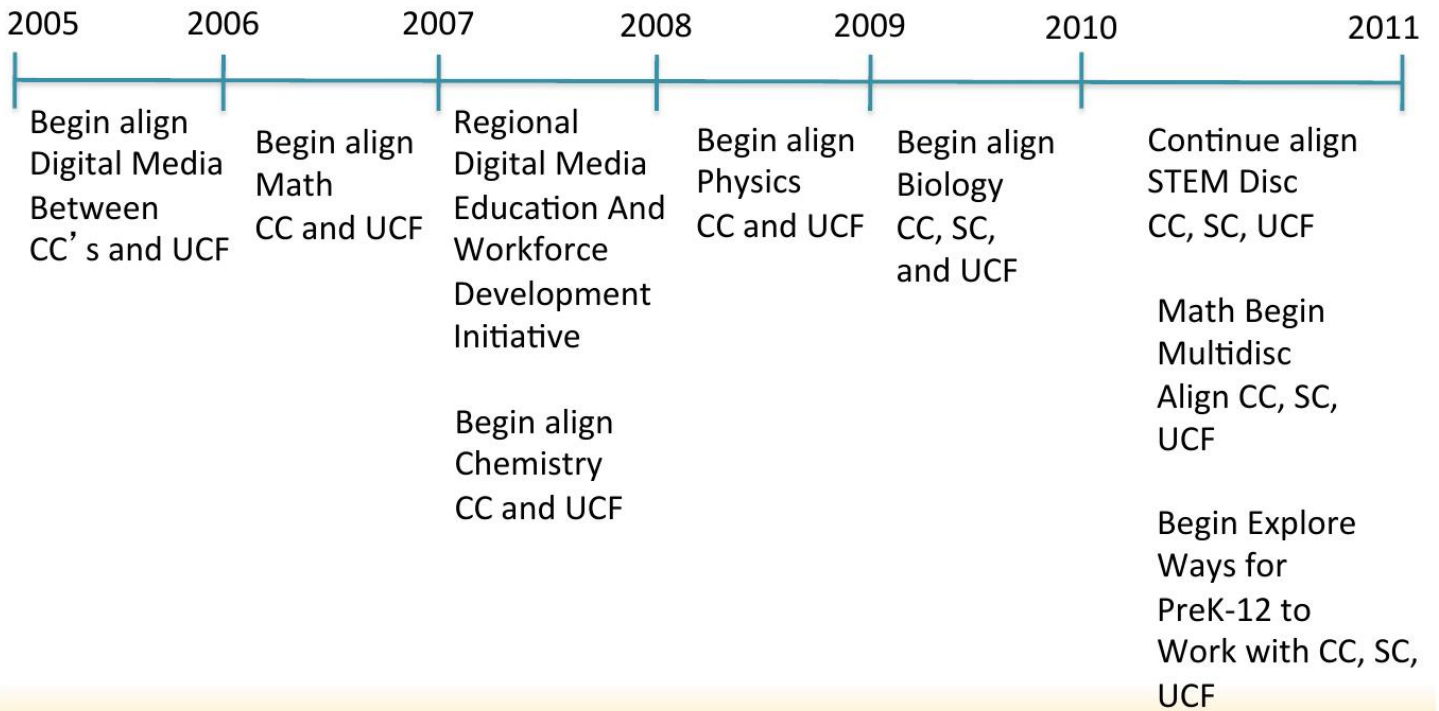


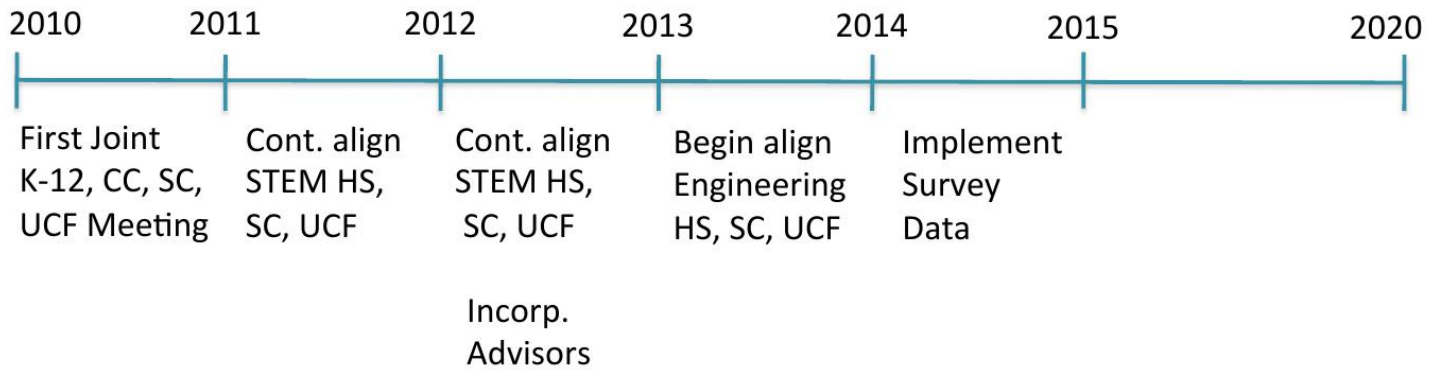
STATE COLLEGE PARTNERS

Student Performance Analysis in Course Sequences



VALENCIA COLLEGE







Working Group Tasks

- Discuss Data
 - Potential causes, meaning, ramifications
 - Deciding factors that can be controlled and those that cannot
- Develop 4 action items for upcoming year
 - Mixture of investigation and solution



BACKGROUND





- UCF - Institutional Knowledge Management (IKM)

- Institutional Research – data support

Question: Can IR provide more detailed analyses to see how FCS students are performing in higher level coursework in specific areas?





Areas to Study:

- Where was the prerequisite course taken?
- What was the type of student?
- What grade did the student earn in the prerequisite course?
- Is the student repeating the course multiple times?
- How much time has passed between the prerequisite course and the UCF required course?



Data Sources:

UCF grades are collected from frozen Student Instruction files submitted to the state.

Transfer coursework is from transcripts loaded into live PeopleSoft tables. This study is looking only for the match of the prerequisite listed and does not include other courses that may have been substituted at the student level.

Caution:

Please consider the size of the 'N' when drawing conclusions from these data. A small 'N' across 5 years may be a weak data point.



INTRODUCTION





- Analyze course performance of students based on their pre-requisite attempt records available at UCF
- Last 5 years of data [Summer 2009 to Spring 2014] was included in analysis
- The numbers include all attempts i.e. a student can be more than once in the summary if multiple attempts were made in this course
- Many students may have completed the pre-requisite for the course in multiple ways eg. have the relevant AP test score and also taken the UCF pre-requisite course



- Partial grades like A-, B+ have been combined to common letter grades like A,B,C,D,F,W, and NC
- The grade of C- is included into D/NC grades
- Grade attempts where the student earned a X, I, N, U, Y and WM grade have not been included



EXAMPLE





Course: MAC 2312

Pre-requisite: MAC 2311

Academic Years considered for this analysis are -

2009-10

2010-11

2011-12

2012-13

2013-14

Course being analyzed in this report -

MAC 2312

Pre-requisite used for this course sequence analysis -

MAC 2311



Table 1 - Background

Summary of student background based on their most recent pre-requisite attempts

Prerequisite Course	MAC2312								Total	
	ABC - Pass				DFW - Unsuccessful				#	% col.
	A	B	C	Total	D/NC	F	W	Total		
AP credits transfered**	215	262	141	618	54	58	30	142	700	9.9
Prerequisite Transferred from FCS	460	126	209	795	27	95	224	346	943	13.3
Prerequisite attempted at UCF	156	970	1,051	2,277	486	452	999	1,937	3,916	55.3
Repeater	81	247	421	749	250	289	159	698	1,447	20.4
Unknown/No prerequisite record found	16	13	15	44	0	0	11	26	70	1.0
Total	1,025	1,361	1,632	4,018	830	1,094	923	2,847	7,076	100.0



Table 2 – Background by Student Type

Prerequisite Course			MAC2312								Total			
			ABC - Pass				DFW - Unsuccessful				#	% col.		
			A	B	C	Total	D/NC	F	W	Total				
MAC2311	FCS Transfers	AP credits transferred**	8	3	3	14	83.8	4	2	2	8	38.4	22	0.0
		Prerequisite Transferred from FCS	25	49	109	183	34.7	89	113	162	344	83.3	527	7.4
		Prerequisite attempted at UCF	32	89	83	194	33.1	47	45	59	151	44.9	334	4.7
		Repeater	11	37	83	131	44.4	41	71	52	164	33.6	295	4.2
		Unknown/No prerequisite record found	1	1	5	7	30.0	1	3	3	7	30.0	14	0.2
		Total	77	159	283	519	43.3	162	234	277	673	54.3	1,192	16.5
	FTICs	AP credits transferred**	207	194	136	537	80.3	50	55	27	132	19.7	669	9.1
		Prerequisite Transferred from FCS	26	70	94	190	31.9	53	74	49	176	48.1	366	5.2
		Prerequisite attempted at UCF	109	890	953	2,341	67.3	424	395	320	1,139	32.7	3,480	49.2
		Repeater	46	203	326	575	53.8	207	289	97	513	48.2	1,119	15.7
		Unknown/No prerequisite record found	7	2	6	15	62.5	5	2	2	9	37.5	24	0.3
		Total	316	1,349	1,515	3,680	65.1	739	735	495	1,969	34.9	5,649	79.0
	Other	AP credits transferred**		5	2	7	77.6		1	1	2	22.2	9	0.1
		Prerequisite Transferred from FCS	0	0	0	0	0.0	0	0	10	0	0.0	10	0.1
		Total	0	5	2	7	77.6	0	1	1	2	22.2	9	0.1



Table 3.x - Pre-requisite Attempt Grade by Most Recent Background

Background Prerequisite Transferred from FCS

Prerequisite Course	MAC2312									Total			
	ABC - Pass				DFW - Unsuccessful				Total	#	% col.		
	A	B	C	Total	D/NC	F	W	Total					
MAC2311	A	45	87	74	206	66.9	24	33	45	102	33.1	348	32.7
	B	8	34	95	137	39.5	53	76	81	210	66.5	347	36.6
	C	7	7	39	53	18.8	50	82	97	229	71.2	282	29.9
	D							1	1	2	00.0	2	0.0
	F			1	1	33.3			3	3	75.0	4	0.4
	Total	60	128	209	397	42.1	127	155	224	546	57.9	1,313	100.0

% of students passing/failing MAC 2312 who transfer the prerequisite from FCS

Background Prerequisite attempted at UCF

Prerequisite Course	MAC2312									Total			
	ABC - Pass				DFW - Unsuccessful				Total	#	% col.		
	A	B	C	Total	D/NC	F	W	Total					
MAC2311	A	363	303	161	827	90.1	36	28	27	91	9.9	918	23.4
	B	158	488	507	1,153	69.4	194	159	155	508	30.6	1,661	42.4
	C	36	171	374	581	45.4	251	250	199	700	54.6	1,281	32.7
	D/NC		5	6	11	36.7	3	6	10	19	63.3	30	0.8
	F		3	3	6	42.9		6	2	8	57.1	14	0.4
	W	1			1	0.0	2	3	6	11	100.0	12	0.3
	Total	558	970	1,051	2,579	50.0	486	452	399	1,337	34.7	5,916	100.0



Table 4 – Prerequisite Institutions

Background Prerequisite Transferred from FCS

	MAC2312								Total			
	ABC - Pass				DFW - Unsuccessful				#	% col.		
	A	B	C	Total	D/NC	F	W	Total				
CFC	5	5	2	4	20.0	4	3	5	12	75.0	16	1.7
DSC	5	7	12	20	31.3	4	7	5	16	48.7	36	4.1
EFSC	5	11	24	40	42.1	17	21	17	55	57.9	95	10.1
LSSC	4	2	5	11	17.8	3		1	4	22.2	15	1.6
SSC		5	12	20	37.0	5	10	19	34	63.0	54	5.7
VC	11	18	40	69	32.7	23	36	63	142	67.3	211	22.4
Total	22	47	94	167	38.6	54	57	113	268	61.4	633	43.9
Other Institution/Unknown	38	51	111	200	43.1	71	98	111	280	56.9	519	54.1
Total	38	51	111	200	43.1	71	98	111	280	56.9	519	54.1



Other Slides

- Table 5.x Number of attempts in prerequisite course

Background Prerequisite attempted at UCF													
Prerequisite Course		MAC2312								Total			
		ABC - Pass				DFW - Unsuccessful				#	% col.		
		A	B	C	Total	D/NC	F	W	Total				
MAC2311	1	542	908	890	2,340	89.8	389	333	291	1,013	30.2	3,353	85.6
	2	14	58	144	216	48.2	80	92	80	252	53.8	468	12.0
	3	2	4	12	18	23.4	14	20	25	59	16.6	77	2.0
	4			4	4	30.8	3	4	2	9	89.2	13	0.3
	5							3	1	4	100.0	4	0.1

- Table 6.x Semester gap between student's prerequisite attempt

Background Prerequisite attempted at UCF													
Prerequisite Course		MAC2312								Total			
		ABC - Pass				DFW - Unsuccessful				#	% col.		
		A	B	C	Total	D/NC	F	W	Total				
MAC2311	Attempted in Same Semester			1	1	25.0	1	1	1	3	75.0	4	0.1
	Immediately in Successive Semester	452	768	768	1,988	89.7	342	283	222	847	30.3	2,796	71.4
	Prerequisite Attempted After Course Attempt			1	1	25.0	1	4	13	18	72.0	25	0.6
	With a gap of 2 to 3 semesters	89	188	251	528	58.3	121	130	125	376	41.7	904	23.5
	With a gap of 4 to 6 semesters	10	22	33	65	53.8	14	22	21	57	46.2	122	3.1



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Now What...?



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To begin this analysis, we must acknowledge:

- Institutional Missions
- Admissions Protocol
- Use (or not) of Placement Tests
- Environmental Differences
- Internal Curriculum Alignment (dept/inst)
- Recent Course Alignment Changes



Data

- Which course sequences did we select and how were they selected?
- What were the questions I had that the data could answer?



Which course sequences did we evaluate?

Biology/Medicine

- BSC 2010C to ZOO 3733C (Human Anatomy Seq.)
- BSC 2011C to PCB 3044 (Ecology Seq.)
- CHM 2046 to PCB 3063 (Genetics Seq. I)
- BSC 2010C to PCB 3063 (Genetics Seq. II)
- CHM 2210 to MCB 3020C (Microbiology I Seq.)

Chemistry/Medicine

- CHM 2045C to CHM 2046 (Chem II Seq.)
- CHM 2046 to CHM 2210 (Organic I Seq.)
- CHM 2210 to CHM 2211 (Organic II Seq.)
- CHM 2211 to BCH 4053 (Biochemistry I Seq.)

Mathematics

- MAC 1105 to MAC 1140 (Pre-Calc Seq.)**
- MAC 1140C to MAC 2311C (Calc I Seq.)**
- MAC 2311C to MAC 2312C (Calc II Seq.)
- MAC 2312C to MAC 2313 (Calc III Seq.)

Physics/Engineering

- MAC 2311C to PHY 2048C (Physics for Engr/Sci I Seq.)
- PHY 2048C to PHY 2049C (Physics for Engr/Sci II Seq.)
- PHY 2048C to EGN 3310 (Statics Seq.)

Based on their background, how successful are the students in the requisite, UCF course?

most recent

2. Summary of student background based on their pre-requisite attempts by Student Type

Prerequisite Course			MAC2312										Total	
			ABC - Pass				DFW - Unsuccessful						#	% col.
			A	B	C	Total	D/NC	F	W	Total				
MAC2311	FCS Transfers	AP credits transferred**	8	3	3	14	63.6	4	2	2	8	36.4	22	0.3
		Prerequisite Transferred from FCS	25	49	109	183	34.9	68	111	162	341	65.1	524	7.4
		Prerequisite attempted at UCF	32	69	83	184	55.1	47	45	58	150	44.9	334	4.7
		Repeater	11	37	83	131	44.4	41	71	52	164	55.6	295	4.2
		Unknown/No prerequisite record found	1	1	5	7	41.2	2	5	3	10	58.8	17	0.2
	Total		77	159	283	519	43.5	162	234	277	673	56.5	1,192	16.8
	FTICs	AP credits transferred**	207	194	136	537	80.3	50	55	27	132	19.7	669	9.5
		Prerequisite Transferred from FCS	26	70	94	190	51.9	53	74	49	176	48.1	366	5.2
		Prerequisite attempted at UCF	508	880	953	2,341	67.3	424	395	320	1,139	32.7	3,480	49.2
		Repeater	68	203	326	597	53.8	207	209	97	513	46.2	1,110	15.7
Unknown/No prerequisite record found		7	2	6	15	62.5	5	2	2	9	37.5	24	0.3	
Total		816	1,349	1,515	3,680	65.1	739	735	495	1,969	34.9	5,649	79.8	

Table 2



What does the prerequisite grade (UCF and FCS) tell me about performance in the requisite, UCF course?

3.1. Summary of student's pre-requisite attempt at UCF

Background Prerequisite attempted at UCF

Prerequisite Course	MAC2312										Total	
	ABC - Pass					DFW - Unsuccessful					#	% col.
	A	B	C	Total	D/NC	F	W	Total				
A	363	303	161	827	90.1	36	28	27	91	9.9	918	23.4
B	150	488	307	1,153	60.4	194	159	155	508	30.6	1,661	42.4
C	36	171	374	581	45.4	51	250	199	700	54.6	1,281	32.7
D/NC	.	5	6	11	37.9	3	5	10	18	62.1	29	0.7
F	.	3	3	6	42.9	.	6	2	8	57.1	14	0.4
W	1	.	.	1	7.7	2	4	6	12	92.3	13	0.3
Total	558	970	1,051	2,579	65.9	486	452	399	1,337	34.1	3,916	100.0

3.2. Summary of student's pre-requisite attempt at Transfer Institution

Background Prerequisite Transferred from FCS

Prerequisite Course	MAC2312										Total	
	ABC - Pass					DFW - Unsuccessful					#	% col.
	A	B	C	Total	D/NC	F	W	Total				
A	45	87	74	206	66.9	24	33	45	102	33.1	308	32.8
B	8	34	95	137	60.8	52	74	81	207	60.2	344	36.6
C	7	7	39	53	18.8	50	82	97	229	81.2	282	30.0
D	.	.	.	.	.	.	1	1	2	100.0	2	0.2
F	.	.	1	1	25.0	.	3	.	3	75.0	4	0.4
Total	60	128	209	397	42.2	126	193	224	543	57.8	940	100.0

Tables 3.1 & 3.2



How about those who repeat the requisite course or have AP scores, how do they do?

most recent

3.3. Summary of student's previous attempt (for course repeaters)

	MAC2312										Total	
	ABC - Pass					DFW - Unsuccessful					#	% col.
	A	B	C	Total	D/NC	F	W	Total				
A	.	1	.	1	100.0	.	.	.	.	.	1	0.1
B	.	.	.	.	.	.	2	2	100.0	2	0.1	
C	3	2	3	8	72.7	1	1	3	27.3	11	0.8	
D/NC	43	132	201	376	68.2	101	45	29	175	31.8	551	38.1
F	26	70	143	239	44.7	85	156	55	296	55.3	535	37.0
W	9	42	74	125	36.0	63	87	72	222	64.0	347	24.0
Total	81	247	421	749	51.8	250	289	159	698	48.2	1,447	100.0

3.4. Summary of student performance by the AP score they articulated

		MAC2312										Total	
		ABC - Pass					DFW - Unsuccessful					#	% col.
		A	B	C	Total	D/NC	F	W	Total				
Prerequisite Course	AP Score												
MAC2311	3	88	215	208	511	70.0	93	83	43	219	30.0	730	32.1
	4	148	191	184	523	73.5	72	76	41	189	26.5	712	31.3
	5	264	243	159	666	80.2	64	63	37	164	19.8	830	36.5
Total		500	649	551	1,700	74.8	229	222	121	572	25.2	2,272	100.0

Tables 3.3 & 3.4



What about our partner colleges?

- Of the students who completed the prerequisite course at a partner college, how did they do in the requisite UCF course?
- How do they compare to the students who completed the prerequisite course at UCF?

4. Summary of Transfer Institutions where pre-requisite attempted by students

Background Prerequisite Transferred from FCS

Prerequisite Course		MAC2312										Total		
		ABC - Pass					DFW - Unsuccessful					#	% col.	
		A	B	C	Total	D/NC	F	W	Total					
Partner	MAC2311	CFC	1	1	2	4	25.0	4	3	5	12	75.0	16	1.7
	DSC	1	7	12	20	52.6	3	7	8	18	47.4	38	4.0	
	FFSC	5	11	24	40	42.6	17	20	17	54	57.4	84	10.0	
	LSSC	4	2	8	14	77.8	3		1	4	22.2	18	1.9	
	SSC		8	12	20	37.5	5	10	19	34	62.5	54	5.7	
	VC	11	18	40	69	32.7	23	56	63	142	67.3	211	22.4	
	Total	22	47	98	167	38.7	55	96	113	264	61.3	431	45.9	
Other Institution/Unknown	MAC2311	Other Institution/Unknown	38	81	111	230	45.2	71	97	111	279	54.8	509	54.1
	Total	38	81	111	230	45.2	71	97	111	279	54.8	509	54.1	

940

1. Summary of student background based on their most recent pre-requisite attempts

Prerequisite Course		MAC2312										Total	
		ABC - Pass					DFW - Unsuccessful					#	% col.
		A	B	C	Total	D/NC	F	W	Total				
MAC2311	AP credits transferred**	215	202	141	558	79.7	54	58	30	142	20.3	700	9.9
	Prerequisite Transferred from FCS	60	128	209	397	42.3	126	193	224	543	57.8	940	13.3
	Prerequisite attempted at UCF	558	970	1,051	2,579	65.9	486	452	399	1,337	34.1	3,916	55.3
	Repeater	81	247	421	749	54.8	250	289	159	698	48.2	1,447	20.4
	Unknown/No prerequisite record found	16	13	15	44	60.3	10	8	11	29	39.7	73	1.0
	Total	930	1,560	1,837	4,327	61.2	926	1,000	823	2,749	38.8	7,076	100.0



How many times did they attempt the prerequisite?

- How did they do in requisite, UCF course?

5.1. Summary of number of attempts in prerequisite course at UCF

Background Prerequisite attempted at UCF

Prerequisite Course		MAC2312										Total	
		ABC - Pass					DFW - Unsuccessful					#	% col.
		A	B	C	Total	D/NC	F	W	Total				
1		542	908	890	2,340	69.8	389	332	291	1,012	30.2	3,352	85.6
2		14	58	144	216	46.1	80	93	80	253	53.9	469	12.0
3		2	4	12	18	23.4	14	20	25	59	76.6	77	2.0
4		.	.	4	4	30.8	3	4	2	9	69.2	13	0.3
5		.	.	.	.	.	.	3	1	4	100.0	4	0.1
6		.	.	1	1	100.0	.	.	.	.	.	1	0.0
Total		558	970	1,051	2,579	65.9	486	452	399	1,337	34.1	3,916	100.0

Table 5.1 & 5.2



Of those who retook the requisite, UCF course, how many times did they try and how successful were they?

5.3. Summary of number of repeated attempts in the course

Background Repeater

	MAC2312										Total	
	ABC - Pass					DFW - Unsuccessful					#	% col.
	A	B	C	Total	D/NC	F	W	Total				
1	75	208	339	622	53.4	201	223	119	543	46.6	1,165	80.5
2	6	32	61	99	45.6	44	45	29	118	54.4	217	15.0
3	.	6	20	26	49.1	4	14	9	27	50.9	53	3.7
4	.	1	1	2	25.0	1	3	2	6	75.0	8	0.6
5	.	.	.	.	.	.	2	.	2	100.0	2	0.1
6	.	.	.	.	.	.	1	.	1	100.0	1	0.1
7	.	.	.	.	.	.	1	.	1	100.0	1	0.1
Total	81	247	421	749	51.8	250	289	159	698	48.2	1,447	100.0

Table 5.3



What was the gap between attempts?

- How does this compare to performance in the requisite, UCF course?

6.1. Summary of semester gap between student's pre-requisite attempt at UCF and the course Background Prerequisite attempted **at UCF**

Prerequisite Course	MAC2312										Total	
	ABC - Pass				DFW - Unsuccessful						#	% col.
	A	B	C	Total	D/NC	F	W	Total				
→ Attempted in Same Semester	.	.	1	1	25.0	1	1	1	3	75.0	4	0.1
→ Immediately in Successive Semester	452	749	748	1,949	69.7	342	282	222	846	30.3	2,795	71.4
→ Prerequisite Attempted After Course Attempt	.	1	6	7	26.9	1	5	13	19	73.1	26	0.7
MAC2311												
With a gap of 2 to 3 semesters	89	186	251	526	58.3	121	130	125	376	41.7	902	23.0
With a gap of 4 to 6 semesters	10	22	33	65	53.3	14	22	21	57	46.7	122	3.1
With a gap of more than 6 semesters	7	12	12	31	46.3	7	12	17	36	53.7	67	1.7
Total	558	970	1,051	2,579	65.9	486	452	399	1,337	34.1	3,916	100.0

Tables 6.1, 6.2, & 6.3



Course Sequences (again)

Biology/Medicine (Rm 136)

- BSC 2010C to ZOO 3733C (Human Anatomy Seq.)
- BSC 2011C to PCB 3044 (Ecology Seq.)
- CHM 2046 to PCB 3063 (Genetics Seq. I)
- BSC 2010C to PCB 3063 (Genetics Seq. II)
- CHM 2210 to MCB 3020C (Microbiology I Seq.)

Chemistry/Medicine (Rm 138)

- CHM 2045C to CHM 2046 (Chem II Seq.)
- CHM 2046 to CHM 2210 (Organic I Seq.)
- CHM 2210 to CHM 2211 (Organic II Seq.)
- CHM 2211 to BCH 4053 (Biochemistry I Seq.)

Mathematics (Rm 140)

- MAC 1105 to MAC 1140 (Pre-Calc Seq.)**
- MAC 1140C to MAC 2311C (Calc I Seq.)**
- MAC 2311C to MAC 2312C (Calc II Seq.)
- MAC 2312C to MAC 2313 (Calc III Seq.)

Physics/Engineering (Main Room)

- MAC 2311C to PHY 2048C (Physics for Engr/Sci I Seq.)
- PHY 2048C to PHY 2049C (Physics for Engr/Sci II Seq.)
- PHY 2048C to EGN 3310 (Statics Seq.)

• Discuss Data

- Potential causes, meaning, ramifications
- Deciding factors that can be controlled and those that cannot

• Develop 4 action items for upcoming year

- Mixture of investigation and solution

Biology Working Group

Report Out 10/31/14

Point 1

- Further investigation into inherent differences between student populations at UCF vs. other FCS schools is warranted
 - Admission requirements
 - Traditional vs. non-traditional students
 - High school GPA
 - Need a "case" student to compare colleges
 - In spite, difference in approximately 10%
- Diagnostic exams helpful
 - Data on success rates for those "refusing" remedial courses might help to encourage them

Point 2

- Parse data so as to categorize students as those attending schools currently engaged in Curriculum Alignment efforts
- Look at all colleges in FCS
- What are other schools in other areas doing?
 - Research on other local, regional, and/or national Curriculum Alignment efforts
- Is UCF our "control?"

Point 3

- Socialization in order to diminish "transfer troubles."
- Have students shadow other students
 - Acclimation to larger university classes and university "culture."
 - e.g. classes, social events, other students

Point 4

- Encourage students to complete sequence courses with as little gap as possible
 - Extend this to faculty, counselors
 - Perhaps other prerequisites and/or *suggested courses* should be suggested for certain courses
 - e.g. BSC 2010C --> genetics?
- Take into account the scheduling of the student
 - Seek advice regarding course selection and sequencing

Point 5

- Extend invitation to high school educators to attend future Curriculum Alignment meetings
 - Include educators, administrators, school board, program specialists, DOE

Chemistry

Trend

	Overall (%)	UCF	FCS	Partners
CHM 2045 to CHM 2046	57.3	64.8	35	30.3
CHM 2210 to CHM 2211	60.1	63.1	34.9	28.8

	Overall (%)	UCF	FCS	Partners
CHM 2046 to CHM 2210	60.6	67.4	47.8	43.7
CHM 2210 to BCH 4053	67	74.7	50.5	52.5

Things to consider

Uncontrolled

- Open access program
- Small classroom to large classroom
- Lack of prep class (not required)
- Non traditional students
- Academic freedom

Control

- Students should not transfer in the middle of sequence (advising)
- High % of adjuncts teaching (full-time faculty involvement) → Quality matters
- Get the adjunct involved (attending CA meetings)
- Disseminate Curriculum alignments results to departments → standardized presentations, check list for adjunct & new faculty
- Development of Chemistry curriculum learning outcomes (in progress)

Math Working Group

What percentage of transfers take more math classes at UCF and what is the first math course they take?

Surveying schools Identifying policy's used at different institutions


Start with 1105, 2311 for Spring meeting

Calculator usage, instructional method, Proctored testing, Course prerequisite enforcement

Credit hours of course, Class size

Investigate creating review modules for students who have a gap in their preparation for a course

Try to get the IR groups for each institution to create Table 3.1 for their institution for the 1033-2313 sequence



Physics and Engineering

Calculus I - Physics I (MAC 2311-PHY 2048)

- ▶ Success rate*
 - ▶ UCF - 86.8%
 - ▶ FCS - 74.4%

- ▶ Points of Emphasis
 - ▶ Alignment with physics and math departments within and across institutions
 - ▶ This ensures math principles used in physics are taught in pre-req
 - ▶ ex: integration

*Success rate for students who completed the prerequisite attempted at UCF or the prerequisite transferred from FCS (Table 1) TD

Physics I - Physics II (PHY2048 - PHY2049)

- ▶ Success rate*
 - ▶ UCF - 87%
 - ▶ FCS institutions - 79.6%
- ▶ Points of emphasis
 - ▶ Communication concerning alignment has been effective
 - ▶ Continue communicating through alignment meetings
 - ▶ Departmental communication
- ▶ Collect / Analyze data for:
 - ▶ Physics II (2049) into principles of Electrical Engineering and Electrical Networks
 - ▶ College physics I and II into further health related courses

*Success rate for students who completed the prerequisite attempted at UCF or the prerequisite transferred from FCS (Table 1) TD

Physics I - Statics (PHY 2048 - EGN 3310 (2312))

- ▶ Success rate*
 - ▶ UCF - 62.6%
 - ▶ FCS - 56.7%
- ▶ Key Factors
 - ▶ Difficulty of the material
 - ▶ Lack of 3-D mathematical background
- ▶ Points of Emphasis
 - ▶ C students have less than 50% success rate
 - ▶ Increase success rate by investigating math alignment and its impact on 2048
 - ▶ Communication between engineering, math, and physics departments

*Success rate for students who completed the prerequisite attempted at UCF or the prerequisite transferred from FCS (Table 1) TD

Next time....

- ▶ Discuss grade distribution and find consistency within and across institutions
 - ▶ Exams, final exam, HW, labs, etc...
- ▶ Reconnect with other institutions

DIRECTCONNECT TO UCF PARTNERSHIP

Curriculum Alignment Conference 2014



A College Access & Success Initiative



The annual Curriculum Alignment Conference was held on October 31, 2014, at the Valencia Public Safety Institute.

The conference followed academic discipline meetings held during the fall semester in



Biology, Chemistry, Engineering, Math and Physics.

The program for the CA conference addressed course success research at UCF after transferring.

Jeff Jones, Vice Provost, UCF Regional Campuses, welcomed the faculty. Mike Hampton, Chair and CA Lead, provided a brief history of the substantial work that has been accomplished since 2005-06 and provided the overview of the conference.

Pat Ramsey and Meghal Parikh, UCF IKM, introduced the course success research and portfolio.

STEM course analysis studies:

CHEMISTRY	BIOLOGY
MATH	PHYSICS/ENGINEERING



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