

**NISTS 2023**

# BE A CONNECTOR FOR TRANSFER STUDENT SUCCESS

Virtual • February 1-3 | Portland, OR • February 22-24

The following presentation was given at the 21st Annual Conference for the National Institute for the Study of Transfer Students. Please cite responsibly and direct questions to the original presenter(s).

*Facilitated Discussion*

## **2832 - Inter-institutional Curriculum Alignment of Gateway Courses: Engaging Faculty in Transfer Student Success**

*Credits and Degree Pathways, Partnerships and Collaboration*

This presentation will outline the history, provide an overview, and share recent data related to a faculty-driven, inter-institutional collaboration to align transfer courses shared between seven institutions. This effort resulted in improved transfer student success in gateway courses and expanded faculty collaborations. The success of this initiative, both qualitative and quantitative, can – and as our presenters will attempt to convince – should be experienced by any collection of institutions who share a student population.

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University of Central Florida

# Inter-institutional Curriculum Alignment of Gateway Courses: Engaging Faculty in Transfer Student Success

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Orlando, Florida

National Institute for the Study of Transfer Students  
February 23, 2023



# Objectives

In this session, we give a brief overview of the Curriculum Alignment initiative

...and through Q&A:

- Discuss the undergirding elements of a successful alignment process
- Discuss the impact of curriculum alignment, how information is shared

# Institutional Description: UCF

## Enrollment (FA21)

Undergraduate	60,062
UG Transfer Students	28,176 47%

## Demographics (UG)

Minorities	39.8%
Hispanic/Latinx UCF is an Hispanic Serving Institution	29.3%
First Generation	21.3%
Pell Eligible	36.4%

# Why Curriculum Alignment

<https://curriculumalignment.ucf.edu>

DirectConnect to  
UCF™

Statewide Course  
Numbering System

Achievement gaps  
between FTIC and  
Transfer

Learning Outcomes,  
Content/Skills, and  
Assessment  
Alignment

Faculty Turnover  
and Curriculum  
Drift (Johns-Boast, 2014)

# Theoretical Foundation: Framing Curriculum Alignment

**Course-level** curriculum alignment is critical to facilitate **seamless academic transition** from lower-level to upper-level courses and to eliminate curriculum gaps and redundancies (Abbot, 2014).

Curriculum alignment confirms **congruence** and **coherence** to the following:

- learning objectives or purposes;
- content or learning experiences;
- organization of these experiences in scope and depth; and
- assessment or evaluation (Biggs 2012; Tyler, 1949).

Curriculum alignment allows **faculty**, who are experts in their respective fields of study, to **assess and discuss** each of the above aspect and ensure that curriculum is aligned (Anderson, 2002).

# Goals of Curriculum Alignment

To synchronize core content and the competencies

To increase propensity of state college students completing relevant lower-level courses

To ensure that the competencies are sufficient for successful curricular progression

# Structure



7 INSTITUTIONS  
& LOCAL HS



58 COURSES



11 DISCIPLINES:  
BI-ANNUAL  
MEETINGS



ANNUAL  
CONFERENCE



# Process

## *What Pieces Were Put in Place to Make Curriculum Alignment Work?*



### **Who is involved?**

Stakeholders: faculty, advisors, and administrators

Central Administration: Two co-leads and an academic program coordinator.

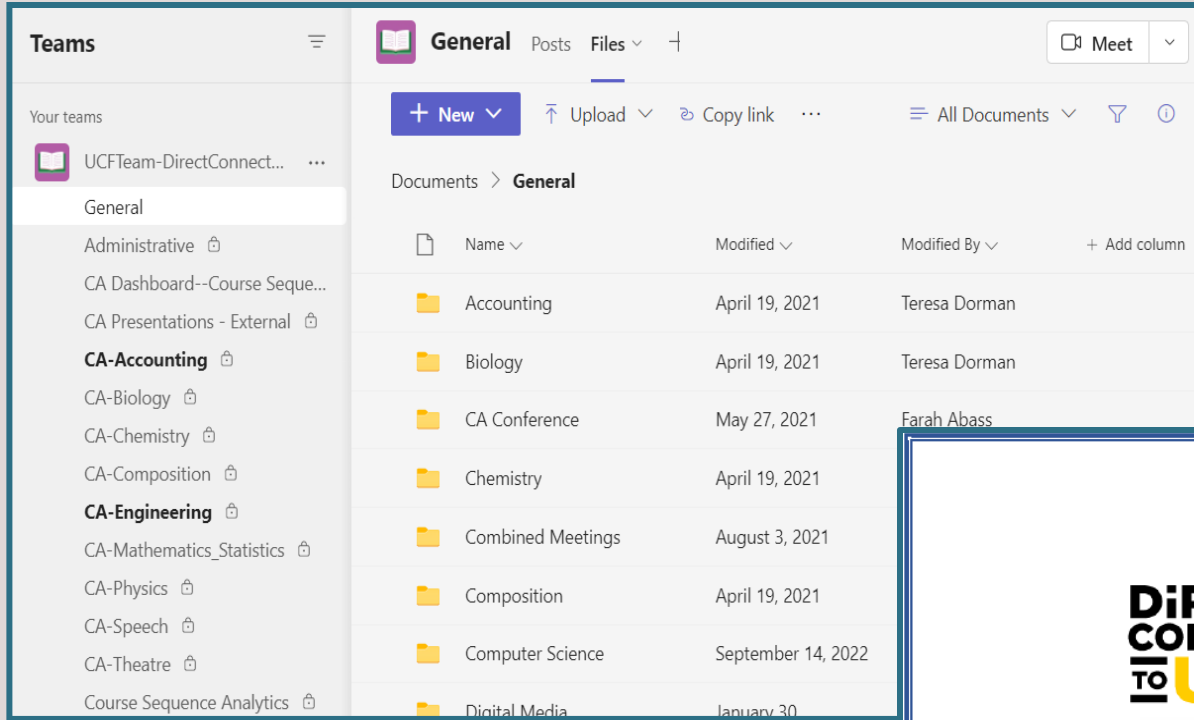


### **What is involved?**

Resources: Teams' folder for collaboration, sub-channels for restricted access

Shared Information: Syllabi, instructional resources, course descriptions spreadsheet

# Curriculum Alignment MS Teams Site



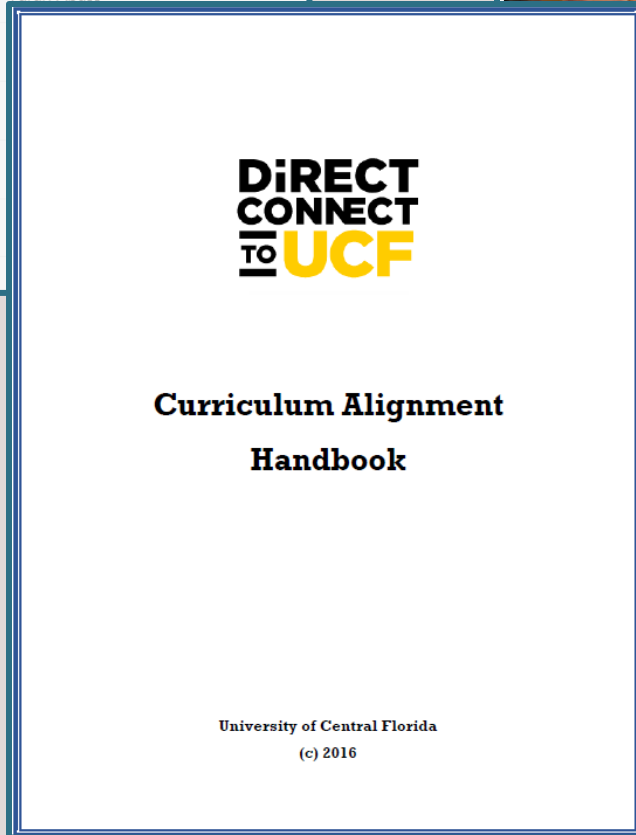
The screenshot shows a Microsoft Teams interface. On the left is a sidebar with 'Your teams' and a list of channels including 'UCFTeam-DirectConnect...', 'General', 'Administrative', 'CA Dashboard--Course Seque...', 'CA Presentations - External', 'CA-Accounting', 'CA-Biology', 'CA-Chemistry', 'CA-Composition', 'CA-Engineering', 'CA-Mathematics\_Statistics', 'CA-Physics', 'CA-Speech', 'CA-Theatre', and 'Course Sequence Analytics'. The main area shows the 'General' channel with a 'Documents' tab selected. A table lists documents:

Name	Modified	Modified By
Accounting	April 19, 2021	Teresa Dorman
Biology	April 19, 2021	Teresa Dorman
CA Conference	May 27, 2021	Farah Abass
Chemistry	April 19, 2021	
Combined Meetings	August 3, 2021	
Composition	April 19, 2021	
Computer Science	September 14, 2022	
Digital Media	January 30, 2022	

Curriculum Alignment Webpage:  
<https://curriculumalignment.ucf.edu>



The screenshot shows the homepage of the Curriculum Alignment website. The main heading is 'Curriculum Alignment' in large black font, with the subtitle 'PARTNERSHIPS FOR STUDENT SUCCESS' in yellow. Below the heading is a navigation menu with links for 'HOME', 'ABOUT', 'DISCIPLINES', 'CONFERENCES', 'VIDEOS', and 'CONTACT US'. A large photograph shows a group of people in a meeting room. Below the photo, the word 'Alignment' is partially visible, followed by a paragraph of text: '...e and a mechanism for faculty, administrators, curriculum designers, and area specialists to share information, best practices, issues and syllabi. This site provides a place for open communication to support the curriculum alignment work.'



The cover of the 'Curriculum Alignment Handbook' features the 'DIRECT CONNECT TO UCF' logo at the top. The title 'Curriculum Alignment Handbook' is centered in a bold, black font. At the bottom, it reads 'University of Central Florida (c) 2016'.

Curriculum Alignment  
Handbook (2016)

Mathematics/Statistics Course Information									
Course	Details	CF	DSC	EFSC	LSSC	SSC	VC	UCF	
MAC 1105	Course	MAC 1105 3(3,0)	MAC 1105 3(3,0)	MAC 1105 3(3,0)	MAC 1105 3(3,0)	MAC 1105 3(3,0)	MAC 1105 3(3,0)	MAC 1105C 3(1,3)	
	Title	College Algebra	College Algebra	College Algebra	College Algebra	College Algebra	College Algebra	College Algebra	
	PR/CR	PR: MAT1033 or CML:40	PR: MPT or college prep course or dev exemption or MAT1033 w/C or	PR: MPT or MAT1033 w/C	PR: MPT or MAT1033 w/C	PR: MPT or MAT1033 w/C	PR: MPT or MAT1033 w/C	PR: MAT1033 w/C or MPT	PR: MPT or MAT1033 w/C
	Textbook	College Algebra (4th Ed) Beecher, Penna, Bittinger MyMathLab	Textbook: College Algebra, 4th Edition by Ratti, McWaters, and Skrzypek MyMathLab (Stand Alone Student Access Kit)	Essentials of College Algebra; 12th Edition Author(s): Lial, Hornsby, Schneider, Daniels ISBN-13: 978-0134697024	eText College Algebra (3rd Ed) Trigsted MyMathLab	College Algebra Essentials Mymathlab 6TH 22	College Algebra, Sullivan, 11th edition. MyLab Math access	College Algebra (4th Ed) Lial, Hornsby, Schneider, Daniels MyMathLab	
	Notes								

Course Information by Institution

Last Reviewed/Updated: 8/28/20			
PHY 1/2048 Physics with Calculus I			
<p><i>Does not reflect how long an instructor should spend on each topic or the depth of coverage of each topic. The topics are simply a reflection of things that should be covered during the length of the course.</i></p>		<b>Type:</b> <b>M=Mandatory</b> <b>O=Optional</b> <b>V=Overview</b> <b>R=Review</b>	<i>Relevance of Physics topic to student learning in identified course</i> <i>L = Low; M = Medium; H = High</i>
Topics	Sub Topics		
MEASUREMENT AND VECTORS	Standard units (SI) - basic and derived units.	M	H
	Vector operations - analytical and graphical solutions	M	H
	Distinguish between scalar and vector	M	H
	Curves, tangents to curves, vector field	M	H
	Dot and cross product	M	H
MOTION	Kinematics - instantaneous and average velocity, acceleration, speed.	M	L
	Types of motion-Circular, harmonic, linear, projectile, 2-and-3 dimensional, rotational.	M	H
	Graphical representation of motion	M	H
	Simple harmonic motion	M	H

Course Topics, Subtopic and Learning Outcomes

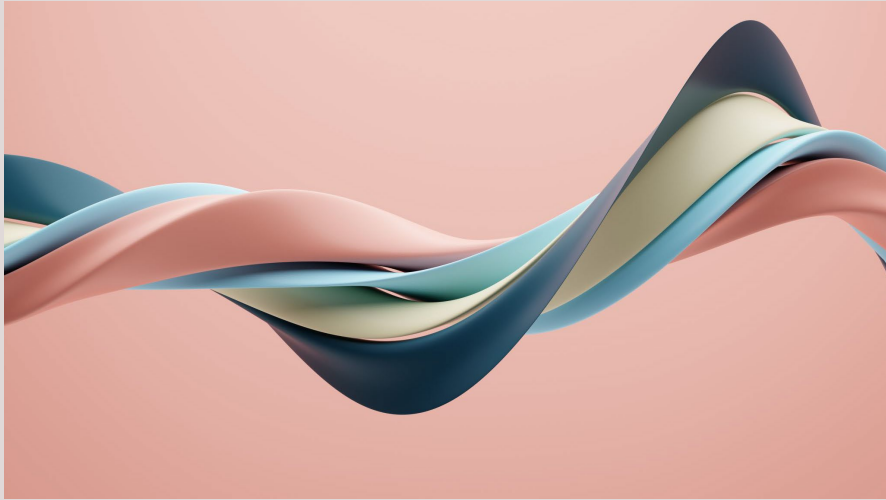
<https://app.sli.do/event/eicnSovGPGqEeeJs9QPVRA>

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# Assessment: Course Sequence Data



# Course Sequence Data

- 53 course sequence of a prerequisite course (any institution) to a target course (UCF)
- 2017/18 to 2019/20 comparison of
  1. Students who completed the prerequisite course at UCF and
  2. Transfer students who completed the prerequisite course elsewhere
- Data shared with all partners
- Limitation:
  - Institutional differences (i.e., admission criteria, institutional mission, etc.)
  - Grades as indicators of “success”
  - Included prerequisite courses with low “N”

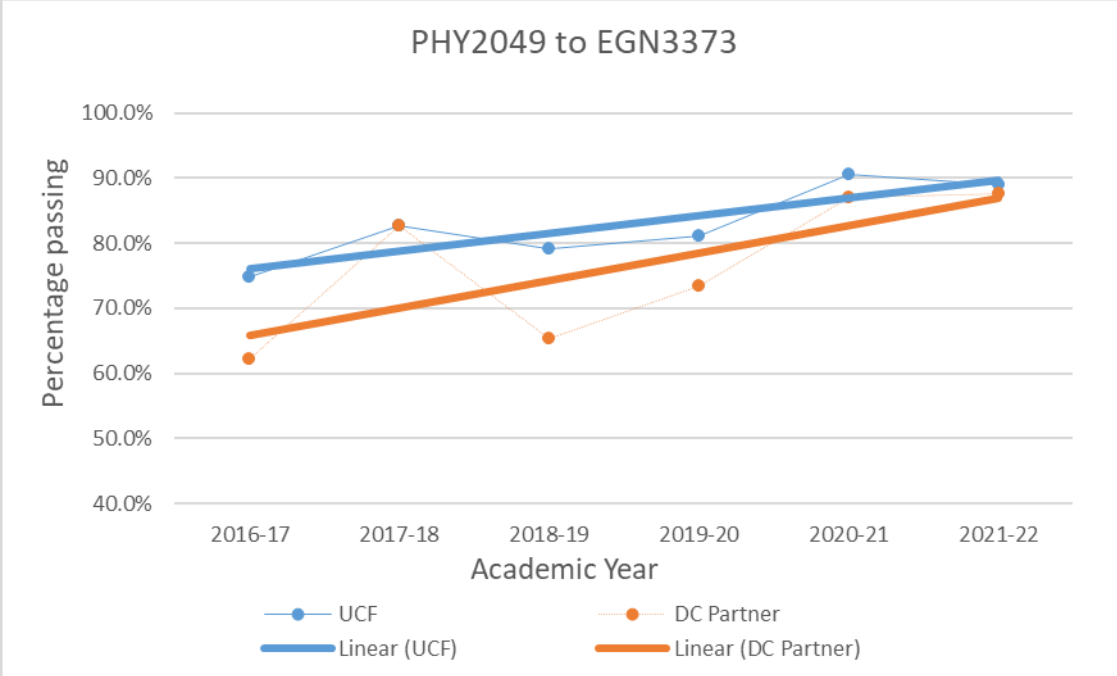
# Course Sequence Data: Impact

- 17/18 to 19/20
  - 36% (n=19) suggested a trend of closing achievement gaps in target course
  - 47% (n=25) showed improvement in transfer student success
- 19/20 to 21/22 - *updated findings*
  - 51 sequences (three removed for no 21/22 data)
  - 53% (n=27) closing achievement gaps in target course
  - 43% (n=22) improved transfer student success

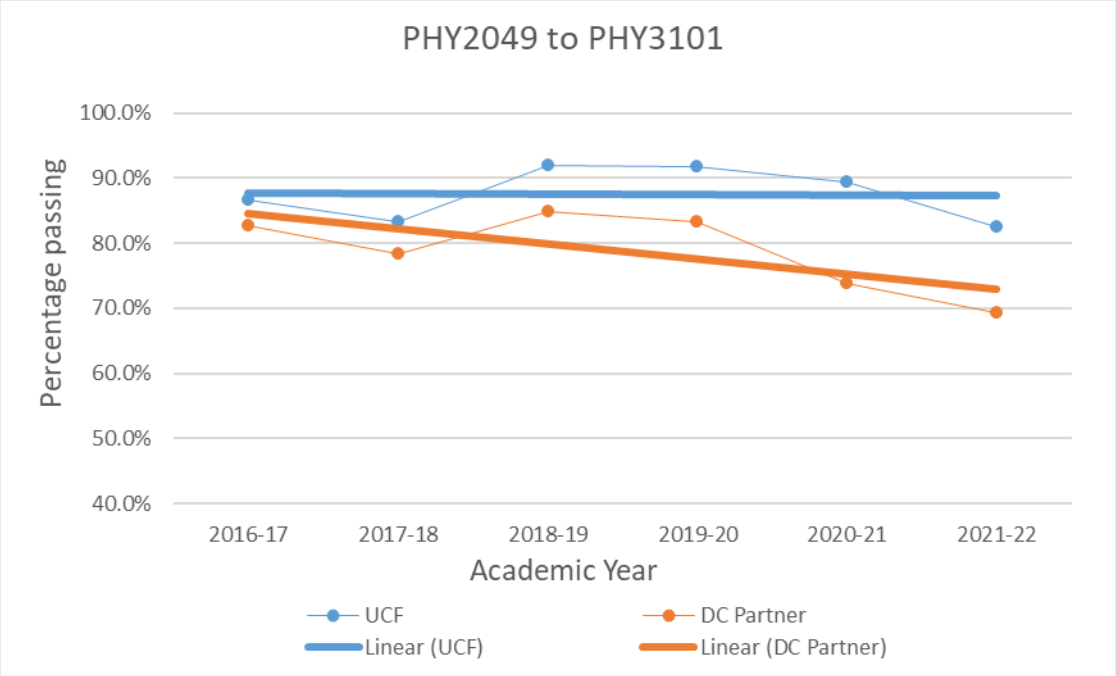


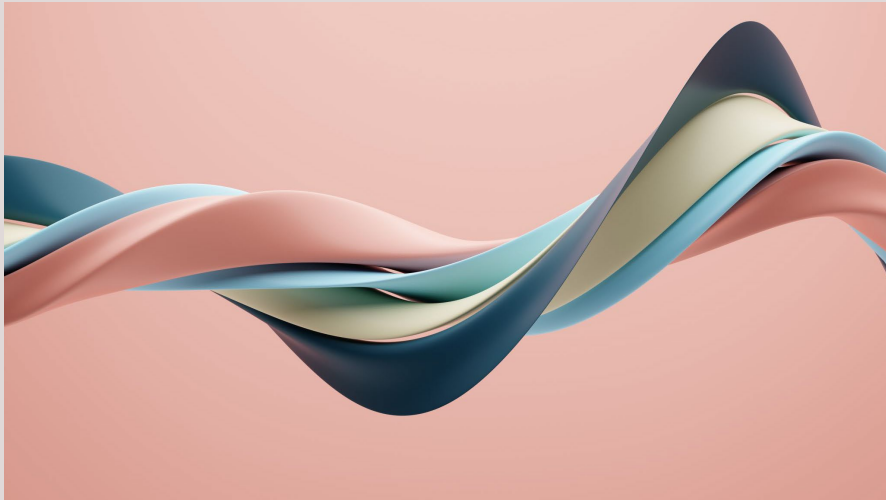
# Course Sequence Data

Gap is closing  
Performance is improving



Gap is increasing  
Performance is flat/declining





# Assessment: Faculty Survey and Focus Groups

# Faculty Survey: Impact

- Validation of instructional practices
- Organic collaborations between faculty (and institutions)
  - Collaboration grants
  - Course redesign
  - Shared assessments / exam materials
  - Pedagogical improvements
  - Instructional materials

# Faculty Focus Group: Impact

- Resource to Inform Selection of Instructional Materials:
  - *New, college algebra instructional materials and package were influenced by what was learned through CA*
  - *How UCF uses ALEKS and Knewton Alta (adaptive learning platforms) may be replicated so transfer student are familiar prior to transition to UCF*
  - *The ease of access to information shared in Teams Folder made it “really handy to have the data right there” when considering the right calculus textbook for our institution.*
- Resource for course review and update
  - *We are using the information shared through CA to “conceptualize where we need to go” and “it is just great to seeing how the sister colleges and my colleagues from different institutions are approaching [the aligning of curriculum].” I find this extremely helpful.*

# Contact Information

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<https://curriculumalignment.ucf.edu>

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**SUCCESS**

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for attending!

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