

Area of Focus Discussion Template

INNOVATIVE SCHEDULING

Innovative Scheduling embraces mapping, scheduling, and student outcomes. This focus includes a review of modalities, times, days, and sequence of courses. It supports areas of interest. It is based on student success, retention, and completion/graduation data. Sample activities include the following:

Possible topics:

- Review scheduling matrices – program map alignment, successes, and challenges.
- Collaborate with guided pathways success teams to assess scheduling conflicts and bottlenecks within and across disciplines that impact student completion.
- Assess mix of teaching modalities – mornings-afternoons-evenings; weekends; face-to-face, hybrid, and distance learning. NOTE: Hybrid is the combined use of various teaching modalities.
- Address scheduling conflicts or dependencies across disciplines or general education areas.
- Student access – cultivate majors, support cohorts and interdisciplinary connections.
- Review units and time to course and program completion.

1. What data were analyzed and what were the main conclusions?

GEOL Program

Scheduling matrices were reviewed to check for conflicts with ENGR courses. GEOL 100 is a required course for the Civil Engineering AS-T. It is shown on the program map as recommended for Year 3 Spring Semester. ENGR 154, 156, 170 and 171 are also scheduled for Year 3 Spring Semester.

Civil Engineering Program Map

Spring - Year Three			
Course	Title	Units	GE Area
ENGR 156	Stength of Materials	3	Major
ENGR 170	Electric Circuits Analysis	3	Major
ENGR 171	Electric Circuits Lab	1	Major
ENGR 154	Dynamics	3	Major
GEOL 100	Physical Geology	4	Major

Section List											
Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id	
Ⓞ ENGR 100/A 02	M	01/23/2...	05/24/2...	04:00 PM	04:50 PM	M 212	202340		Schedul...	40441	
Ⓞ ENGR 126/A 02	F	01/23/2...	05/24/2...	09:30 AM	10:45 AM	M 201	202340		Schedul...	40576	
Ⓞ ENGR 154/A 02	TR	01/23/2...	05/24/2...	09:30 AM	10:50 AM	M 212	202340		Schedul...	40208	
Ⓞ ENGR 156/A 02	M	01/23/2...	05/24/2...	12:30 PM	01:20 PM	M 212	202340		Schedul...	40209	
Ⓞ ENGR 156/A 02	MW	01/23/2...	05/24/2...	11:00 AM	12:20 PM	M 212	202340		Schedul...	40209	
Ⓞ ENGR 170/A 02	MW	01/23/2...	05/24/2...	02:15 PM	03:35 PM	M 212	202340		Schedul...	40533	
Ⓞ ENGR 171/A 04	R	01/23/2...	05/24/2...	11:00 AM	02:05 PM	M 433	202340		Schedul...	40548	

Section List											
Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id	
Ⓞ GEOL 100/A 02	MW	01/23/2...	05/24/2...	12:45 PM	02:05 PM	M 211	202340		Schedul...	40054	
Ⓞ GEOL 100/A 04	M	01/23/2...	05/24/2...	02:15 PM	05:20 PM	M 211	202340		Schedul...	40054	
Ⓞ GEOL 100/B 02	T	01/23/2...	05/24/2...	06:30 PM	09:35 PM	M 211	202340		Schedul...	40546	
Ⓞ GEOL 100/B 04	R	01/23/2...	05/24/2...	06:30 PM	09:35 PM	M 211	202340		Schedul...	40546	

The addition of the night section for GEOL 100 ensures that there is a section that does not conflict with the ENGR courses.

PHSC Program

Scheduling matrices were reviewed to check for conflicts with Elementary Education courses. PHSC 111 and 112 are required courses for the Elementary Education AA-T or Liberal Studies degree. It is shown on the program map as recommended for Year 2 for the AA-T and Year 1 for Liberal Studies. I review the scheduling matrices for conflicts between the PHSC classes and .

Liberal Studies Program Map

FALL SEMESTER (YEAR 1)

Course #	Course Title	Units
ECS 100	CHILD GROWTH AND DEVELOPMENT	+ 3
ENGL 101	FRESHMAN COMPOSITION: EXPOSITION	+ 4
PHSC 111	MATTER, ENERGY AND MOLECULES	+ 4
ELECTIVE	MAJOR ELECTIVE	+ 3

SPRING SEMESTER (YEAR 1)

Course #	Course Title		Units
EDUC 130	EXPLORING TEACHING	+	3
MATH 105	MATHEMATICS FOR TEACHERS	+	4
PHSC 112	EARTH AND THE UNIVERSE	+	4
AHC GRAD REQ	DANCE OR PHYSICAL ACTIVITY	+	5-3
AHC GRAD REQ	HEALTH EDUCATION OR FIRST AID	+	3

Elementary Education AA-T Program Map

FALL SEMESTER (YEAR 2)

Course #	Course Title		Units
ENGL 103	CRITICAL THINKING AND COMPOSITION	+	3
	OR		
PHIL 114	CRITICAL THINKING	+	3
GEOG 103	WORLD REGIONAL GEOGRAPHY	+	3
PHSC 111	MATTER, ENERGY AND MOLECULES	+	4
POLS 103	AMERICAN GOVERNMENT	+	3
ELECTIVE	MAJOR ELECTIVE	+	3

SPRING SEMESTER (YEAR 2)

Course #	Course Title		Units
HIST 101	WORLD CIVILIZATIONS TO 1600	+	3
HIST 107	U S HISTORY TO 1877	+	3
PHSC 112	EARTH AND THE UNIVERSE	+	4
ELECTIVE	MAJOR ELECTIVE	+	4
CSU GE	AREA F: ETHNIC STUDIES	+	3

Section List

Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offer
⊙ ECS 100/B 02	MW	01/23/2...	05/24/2...	09:30 AM	10:50 AM	I 115	202340		Schedul...	40253
⊙ ECS 100/C 02	TR	01/23/2...	05/24/2...	09:30 AM	10:50 AM	I 213	202340		Schedul...	40349
⊙ ECS 100/D 02	R	01/23/2...	05/24/2...	06:30 PM	09:35 PM	I 115	202340		Schedul...	40328
⊙ ECS 100/E 72		01/23/2...	05/24/2...	12:00 AM	12:00 AM		202340		Incompl...	40720
⊙ ECS 100/F 72		01/23/2...	03/17/2...	12:00 AM	12:00 AM		202340		Incompl...	40325
⊙ ECS 100/G 72		03/27/2...	05/20/2...	12:00 AM	12:00 AM		202340		Incompl...	41601

Section List

Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id
⊙ EDUC 130/A 04		01/23/2...	05/24/2...	12:00 AM	12:00 AM		202340	LA	Incompl...	40374
⊙ EDUC 130/A 72		01/23/2...	05/24/2...	12:00 AM	12:00 AM		202340	LA	Incompl...	40374
⊙ EDUC 132/A 04		01/23/2...	05/24/2...	12:00 AM	12:00 AM		202340	LB	Incompl...	40808
⊙ EDUC 132/A 72		01/23/2...	05/24/2...	12:00 AM	12:00 AM		202340	LB	Incompl...	40808

Section List

Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id
⊙ GEOG 103/B 72		01/23/2...	05/24/2...	12:00 AM	12:00 AM		202340		Incompl...	40672

Section List

Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id
⊙ POLS 103/A 02	TR	01/23/2...	05/24/2...	09:30 AM	10:50 AM	C 33	202340		Schedul...	40131
⊙ POLS 103/B 02	MW	01/23/2...	05/24/2...	12:30 PM	01:50 PM	K 20	202340		Schedul...	40132
⊙ POLS 103/C 02	TR	01/23/2...	05/24/2...	11:00 AM	12:20 PM	C 33	202340		Schedul...	40133
⊙ POLS 103/D 02	R	01/23/2...	05/24/2...	06:30 PM	09:35 PM	W 31	202340		Schedul...	41025
⊙ POLS 103/E 02	M	01/23/2...	03/17/2...	06:00 PM	09:05 PM	C 33	202340		Schedul...	40364
⊙ POLS 103/F 02	M	01/23/2...	05/24/2...	06:30 PM	09:35 PM	LVC2 212	202340		Schedul...	41657

Section List

Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id
⊙ HIST 101/A 02	MW	01/23/2...	05/24/2...	09:30 AM	10:50 AM	C 40	202340	1A	Schedul...	40102

Section List											
Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id	
Ⓞ HIST 107/C 02	MW	01/23/2...	05/24/2...	09:30 AM	10:50 AM	W 18	202340		Schedul...	40489	
Ⓞ HIST 107/D 02	MW	01/23/2...	05/24/2...	12:30 PM	01:50 PM	C 40	202340		Schedul...	40107	

Section List											
Course/Section ^1	Days Met	Start Date	End Date	Start Time	End Time	Room	Term	Cross-List	Status	Course Offering Id	
Ⓞ MATH 105/A 02	MW	01/23/2...	05/24/2...	08:00 AM	10:25 AM	M 212	202340		Schedul...	40190	

The schedule for the required Elementary Education and Liberal Studies courses eliminates or minimizes conflicts with PHSC classes.

- Based on the data analysis and looking through a lens of equity, what do you perceive as *challenges* with student success or access in your area of focus?

The main challenges for the students taking the PHSC courses are not created by scheduling. The Program Maps do have heavy course loads for some of the degrees which may make it difficult for students that struggle with MATH and STEM courses to carry that load. Many of the students in the PHSC courses have commitments to jobs and families that make it difficult to maintain an organized study schedule.

- What are your plans for change or *innovation*?

We will investigate the addition of a DE hybrid option for the PHSC courses. The lecture portion of the courses would be offered as an online (fully DE) course, with the labs remaining face-to-face. This would give students more flexibility in their schedules.

- How will you *measure* the results of your plans to determine if they are successful?

Once the DE hybrid courses are implemented, we can compare the success and retention data between the fully face-to-face and hybrid course to determine if the new options have improved outcomes.

Validation for Program Planning Process: If you have chosen to do the Validation this year, please explain your process and the findings.

1. Who have you identified to validate your findings? (Could include Guided Pathway Success Teams, Advisory Committee Members, related faculty, industry partners or higher education partners)
2. Are there specific recommendations regarding the core topic responses from the validation team?

Based on the narratives for the prompts above for this core topic, what are some program planning initiatives and resources needed for the upcoming years? Use the tables below to fill in **NEW** resources and planning initiatives. ***This section is only used if there are new planning initiatives and resources requested for this Core Topic.***

Sample:

New Program Planning Initiative– Core Topic Only	
Title:	<i>(Short description of the planning initiative)</i> Telescope night
Planning years:	<i>(The academic years this will take to complete)</i> 2021-22 to 2024-25
Description:	
<i>(A more detailed version of initiative. Please include a description of the initiative, why it is needed, who will be responsible, and actions that need to happen, so it is completed.)</i>	
The success levels of our courses have indicated that students need to have a hands-on experience with finding and pinpointing important celestial objects. Having a telescope night would allow students to learn how to align and find objects.	
Resources:	
Priority Level: Low Medium High	
Resource Type: Equipment Staff Faculty Supplies and Materials	
Quantity: 1	
Per Item Price: \$69.99	Price with taxes/shipping, etc.: \$76.00
Description:	
Telescopes for students to use during the telescope nights. It is a 70mm telescopes for Adults Astronomy & Kids & Beginners, 300mm Portable Refractor Travel Telescope (15X-150X) with A Smartphone Adapter& A Wireless Remote	
https://www.amazon.com/ToyerBee-Telescope-Telescopes-Professional-Smartphone/dp/B095XQVTNM/ref=sr_1_4?crd=256FVSAQ5EUOP&keywords=telescope&qid=1667944660&sprefix=telescope%2Caps%2C160&sr=8-4&ufe=app_do%3Aamzn1.fos.18ed3cb5-28d5-4975-8bc7-93deae8f9840	

New Program Planning Initiative– Core Topic Only

Title:	
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Planning years:	
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Description:

Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

New Program Planning Initiative– Core Topic Only

Title:	
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Planning years:	
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Description:

Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

New Program Planning Initiative– Core Topic Only

Title:	
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Planning years:	
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Description:

Resources:
Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Resources:
Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Resources:
Resources:

Priority Level: Low Medium High
Resource Type: Equipment Staff Faculty Supplies and Materials
Quantity:
Per Item Price: **Price with taxes/shipping, etc:**
Description:

Program Review Signature Page:



Program Review Lead

Jun 28, 2023

Date



Program Dean

Jun 28, 2023

Date



Vice President, Academic Affairs

Jun 28, 2023

Date

YEARLY PLANNING DISCUSSION TEMPLATE

General Questions

Program Name Geology and Physical Science **Academic Year** 2023-2024

1. Has your program mission or primary function changed in the last year?

No.

2. Were there any noteworthy changes to the program over the past year? (eg, new courses, degrees, certificates, articulation agreements)

Yes. The department launched the GEOL AS-T degree, added GEOL 111 (historical geology lecture and lab) for the GEOL AS-T degree requirement, GEOL 115 (oceanography lab) to provide an additional physical science lab and lecture, and GEOL 111 articulation with UCSB was completed.

3. Is your two-year program map in place and were there any challenges maintaining the planned schedule?

Yes, our two-year program map is in place. The problem with maintaining the planned schedule is the low enrollment in GEOL 111 and it was cancelled. We had 2 students that wanted to complete the degree and were unable to do so.

4. Were there any staffing changes?

No.

5. What were your program successes in your area of focus last year?

Our program successes included launching the GEOL AS-T degree program, launching both GEOL 111 and GEOL 115.

The Geology Program also participated in outreach events with local elementary schools and Bulldog Bound.

Learning Outcomes Assessment

- a. Please summarize key results from this year's assessment.

The assessment was not completed this year. Assessment will be completed in the 2023-2024 academic year.

- b. Please summarize your reflections, analysis, and interpretation of the learning outcome assessment and data.

- c. Please summarize recommendations and/or accolades that were made within the program/department.

- d. Please review and attach any changes to planning documentation, including PLO rubrics, associations, and cycles planning.

Distance Education (DE) Modality Course Design Peer Review Update (Please attach documentation extracted from the *Rubric for Assessing Regular and Substantive Interaction in Distance Education Courses*)

- a. Which courses were reviewed for regular and substantive interactions (RSI)?
None. We are currently (Summer 2023) offering GEOL 141 DE and will be offering GEOL 114 DE (Fall 2023). We will review GEOL 141 and GEOL 114 next year in 2023-2024.

- b. What were some key findings regarding RSI?
 - Some strengths:

 - Some areas of possible improvement:

- c. What is the plan for improvement?

CTE two-year review of labor market data and pre-requisite review

- a. Does the program meet documented labor market demand?

- b. How does the program address needs that are not met by similar programs?

- c. Does the employment, completion, and success data of students indicate program effectiveness and vitality? Please, explain.

- d. Has the program met the Title 5 requirements to review course prerequisites, and advisories within the prescribed cycle of every 2 year for CTE programs and every 5 years for all others?

- e. Have recommendations from the previous report been addressed?

Use the tables below to fill in **NEW** resources and planning initiatives that **do not apply directly to core topics**. *This section is only used if there are new planning initiatives and resources requested.*

Sample:

New Program Planning Initiative – Yearly Planning Only	
Title:	<i>(Short description of the planning initiative)</i> Telescope night
Planning years:	<i>(The academic years this will take to complete)</i> 2021-22 to 2024-25
Description: <i>(A more detailed version of initiative. Please include a description of the initiative, why it is needed, who will be responsible, and actions that need to happen, so it is completed.)</i> The success levels of our courses have indicated that students need to have a hands-on experience with finding and pinpointing important celestial objects. Having a telescope night would allow students to learn how to align and find objects.	

Resources:

Priority Level: Low Medium **High**

Resource Type: **Equipment** Staff Faculty Supplies and Materials

Quantity: 1

Per Item Price: \$69.99

Price with taxes/shipping, etc.: \$76.00

Description:

Telescopes for students to use during the telescope nights. It is a 70mm telescopes for Adults Astronomy & Kids & Beginners, 300mm Portable Refractor Travel Telescope (15X-150X) with A Smartphone Adapter& A Wireless Remote

https://www.amazon.com/ToyeeBee-Telescope-Telescopes-Professional-Smartphone/dp/B095XQVTNM/ref=sr_1_4?crd=256FVSAQ5EU0P&keywords=telescope&qid=1667944660&sprefix=telescope%2Caps%2C160&sr=8-4&ufe=app_do%3Aamzn1.fos.18ed3cb5-28d5-4975-8bc7-93deae8f9840

New Program Planning Initiative – Yearly Planning Only

Title: Field Program

Planning years: 2022-2023 to 2025-2026

Description:

The GEOL program is currently working towards relaunching field courses starting Fall 2024. The field program was suspended after the loss of the full-time faculty in 2019. This will require improved support for student participation in Geology field trips, which are a unique part of the discipline’s curriculum and an important tool for recruiting new students to the program, by providing transportation. The current full-time Geology faculty member is responsible for this initiative but is working closely with the current part-time Geology faculty member.

In addition to providing transportation, this initiative will require collaboration with the lab technician to revise and improve field trip logistics. It will also require campus resources to provide students with zero or low cost access to these field courses. The success of this initiative will also rely on the recruitment of additional part-time faculty.

Resources:

Priority Level: Low Medium **High**

Resource Type: **Equipment** Staff Faculty Supplies and Materials

Quantity: 3

Per Item Price: **Price with taxes/shipping, etc: \$ 131,214.00**

Description: 7 passenger Ford Transit Vans – waiting for detailed quote

Resources:

Priority Level: Low Medium High

Resource Type: Equipment Staff Faculty Supplies and Materials

Quantity:

Per Item Price: **Price with taxes/shipping, etc:**

Description:

Resources:

Priority Level: Low Medium High

Resource Type: Equipment Staff Faculty Supplies and Materials

Quantity:

Per Item Price: **Price with taxes/shipping, etc:**

Description:

New Program Planning Initiative – Yearly Planning Only	
Title:	Geospatial Curriculum Integration
Planning years:	2022-2023 to 2023-2024
Description:	
<p>Afford students opportunities to use and become familiar with GPS and GIS, technologies that are widely used in the Earth and environmental sciences today, in their introductory geology courses. The full-time faculty in Geology has introduced GIS software into the existing curriculum. The program plans on adding 12 GPS receivers to improve data collection. This initiative will provide students with valuable training in geospatial technology which can be applied in Geology and other disciplines. The current full-time faculty member in Geology will be responsible for this initiative. This initiative can be completed with the additional of the GPS units. These units can also be used in collaboration with GIS classes in the Geography program.</p>	

Resources:

Priority Level: Low Medium High

Resource Type: Equipment Staff Faculty Supplies and Materials

Quantity: 12

Per Item Price: \$3470.00

Price with taxes/shipping, etc: \$ 45,403.00

Description: EOS Arrow 100 GNSS Kit which includes receiver, antenna, antenna cables, battery, charger, bag, cap, USB, 2 yr HW warranty, pole mount kit, pole, pole mount bracket, and carry bag.

<https://hancockcollege->

[my.sharepoint.com/:b:/g/personal/fschroeder_hancockcollege_edu/EUbWtpGvqAxCoggO6LSwyaIBg7fvxZuLlKNDsEZz9AkrvQ?e=oygVgm](https://hancockcollege-my.sharepoint.com/:b:/g/personal/fschroeder_hancockcollege_edu/EUbWtpGvqAxCoggO6LSwyaIBg7fvxZuLlKNDsEZz9AkrvQ?e=oygVgm)

Resources:

Priority Level: Low Medium High

Resource Type: Equipment Staff Faculty Supplies and Materials

Quantity:

Per Item Price:

Price with taxes/shipping, etc:

Description:

Resources:

Priority Level: Low Medium High

Resource Type: Equipment Staff Faculty Supplies and Materials

Quantity:

Per Item Price:

Price with taxes/shipping, etc:

Description:











Innovative Scheduling Discussion GEOL PHSC 2022_2023

Final Audit Report

2023-06-28

Created:	2023-06-28
By:	Sean Abel (sean.abel@hancockcollege.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAj6eeZ6BWPpJAH_D9wVBqfHJl3fadmL3h

"Innovative Scheduling Discussion GEOL PHSC 2022_2023" History

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2023-06-28 - 5:29:42 PM GMT- IP address: 209.129.94.61
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2023-06-28 - 5:30:32 PM GMT
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2023-06-28 - 6:14:17 PM GMT- IP address: 104.28.123.97
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Signature Date: 2023-06-28 - 6:15:51 PM GMT - Time Source: server- IP address: 75.128.11.109
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Signature Date: 2023-06-28 - 6:23:57 PM GMT - Time Source: server- IP address: 209.129.94.61
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