

INTEGRATED TEACHER PREPARATION PROGRAM (ITPP)

An Articulation Agreement between the University of
San Diego and San Diego Mesa College

2018 - 2022



Integrated Teacher Preparation Program (ITPP) FAQs

1. What is ITPP?
 - a. 4 year pathway to gain a bachelor's degree and single subject California teaching credential. It is a collaboration between San Diego Mesa College and the University of San Diego to prepare more mathematics and science students for teaching in California.
2. What are the 6 areas of study?

Biology, Biochemistry, Chemistry, Environmental Science, Mathematics and Physics
3. Who to contact to begin an ITPP pathway?
 - a. College counselor, transfer center or academic advisor
 - b. Goal is to have one point of contact counselor for each school well informed about ITPP pathways
4. Do students need to apply to USD as soon as they choose an ITPP pathway?
 - a. No, students will take San Diego Mesa College courses for the first two years of their pathway and then apply and transfer to USD for upper division and credential courses
5. Are articulation agreements or transfer pathways finalized?

Yes. Please reference the agreement for each subject area as follows:

 - a. Biology: Pages 2 – 3
 - b. Biochemistry: Pages 4 – 5
 - c. Chemistry: Pages 6 – 7
 - d. Environmental Science: Pages 8 – 9
 - e. Math: Pages 10 –11
 - f. Physics: Pages 12–13
6. What courses will fulfill core curriculum (general education) requirements?

Please reference the USD-San Diego Mesa Core Curriculum (General Education Articulation Agreement and consult with an advisor before selecting courses.
7. What can be done with this ITPP degree?
 - a. Work as a credentialed California teacher in a single subject for middle school or high school level.

For more information consult <https://www.sandiego.edu/itpp/about/>

**University of San Diego (USD) and San Diego Mesa College (Mesa)
2018-2022 Integrated Teacher Preparation Program (ITPP)
Articulation Agreement**

Program Major: BIOLOGY

USD Course	Mesa Course
Fall Year 1	
BIOL 240 and 240L	BIOL 210A
CHEM 151 and 151L	CHEM 200 and 200L
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 1	
BIOL 242 and 242L	BIOL 210B
CHEM 152 and 152L	CHEM 201 and 201L
Core Curriculum	General Education
Core Curriculum	General Education
Summer Year 1	
EOSC 110	GEOL 104
MATH 130 or 150	MATH 150
Fall Year 2	
BIOL 300 or 305	Must take at USD
CHEM 301 and 301L	CHEM 231 and 231L
EDUC 381C	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 2	
BIOL 300 or 305	Must take at USD
BIOL 309	Must take at USD
EDUC 382 or EDTE 310	CHIL 101
Core Curriculum	General Education
Core Curriculum	General Education
Summer Year 2	
EDSP 389P	Must take at USD
Core Curriculum	General Education

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Program Major: BIOLOGY (continued)

USD Course	Mesa Course
Fall Year 3	
BIOL Elective	Must take at USD
EDUC 337	Must take at USD
PHYS 136 and 136L	PHYS 125
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 3	
BIOL Elective	Must take at USD
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
PHYS 137 and 137L	PHYS 126
Core Curriculum	General Education
Summer Year 3	
Core Curriculum	General Education
Core Curriculum	General Education
Fall Year 4	
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
Spring Year 4	
BIOL Elective	Must take at USD
BIOL Elective	Must take at USD
BIOL 495	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

**University of San Diego (USD) and San Diego Mesa College (Mesa)
2018-2022 Integrated Teacher Preparation Program (ITPP)
Articulation Agreement**

Program Major: BIOCHEMISTRY

USD Course	Mesa Course
Fall Year 1	
CHEM 151 and 151L	CHEM 200 and 200L
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 1	
CHEM 152 and 152L	CHEM 201 and 201L
MATH 151	MATH 151
Core Curriculum	General Education
Core Curriculum	General Education
Summer Year 1	
EOSC 110	GEOL 104
BIOL 240 and 240L	BIOL 210A
Fall Year 2	
CHEM 301 and 301L	CHEM 231 and 231L
CHEM 396	Must take at USD
EDUC 381C	Must take at USD
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
Spring Year 2	
CHEM 220	CHEM 251
CHEM 302 and 302L	CHEM 233 and 233L
EDUC 382 or EDTE 310	CHIL 101
PHYS 271 and 271L	PHYS 196
Summer Year 2	
BIOL 242 and 242L	BIOL 210B
EDSP 389P	Must take at USD

**University of San Diego (USD) and San Diego Mesa College (Mesa)
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Program Major: BIOCHEMISTRY (continued)

USD Course	Mesa Course
Fall Year 3	
BIOL 300	Must take at USD
CHEM 311	Must take at USD
CHEM 331	Must take at USD
EDUC 337	Must take at USD
PHIL 341	Must take at USD
Spring Year 3	
CHEM 330	Must take at USD
CHEM 332	Must take at USD
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
Core Curriculum	General Education
Summer Year 3	
Core Curriculum	General Education
Core Curriculum	General Education
Fall Year 4	
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
100 Hrs Research	Must complete at USD
Spring Year 4	
CHEM Upper Division Elective	Must take at USD
CHEM 335W	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education

**University of San Diego (USD) and San Diego Mesa College (Mesa)
2018-2022 Integrated Teacher Preparation Program (ITPP)
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Program Major: CHEMISTRY

USD Course	Mesa Course
Fall Year 1	
CHEM 151 and 151L	CHEM 200 and 200L
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 1	
CHEM 152 and 152L	CHEM 201 and 201L
MATH 151	MATH 151
Core Curriculum	General Education
Core Curriculum	General Education
Summer Year 1	
EOSC 110	GEOL 104
BIOL 240 and 240L	BIOL 210A
Fall Year 2	
CHEM 301 and 301L	CHEM 231 and 231L
CHEM 396	Must take at USD
EDUC 381C	Must take at USD
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
Spring Year 2	
CHEM 220	CHEM 251
CHEM 302 and 302L	CHEM 233 and 233L
EDUC 382 or EDTE 310	CHIL 101
PHYS 271 and 271L	PHYS 196
Summer Year 2	
BIOL 242 and 242L	BIOL 210B
EDSP 389P	Must take at USD

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Program Major: CHEMISTRY (continued)

USD Course	Mesa Course
Fall Year 3	
CHEM 311	Must take at USD
CHEM 422W	Must take at USD
CHEM 440	Must take at USD
EDUC 337	Must take at USD
PHIL 341	Must take at USD
Spring Year 3	
CHEM 312	Must take at USD
CHEM 331	Must take at USD
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
Core Curriculum	General Education
Summer Year 3	
Core Curriculum	General Education
Core Curriculum	General Education
Fall Year 4	
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
100 Hrs Research	Must complete at USD
Spring Year 4	
CHEM Upper Division Elective	Must take at USD
CHEM 424	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education

**University of San Diego (USD) and San Diego Mesa College (Mesa)
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Program Major: ENVIRONMENTAL SCIENCE

USD Course	Mesa Course
Fall Year 1	
EOSC 110	GEOL 104
EOSC 123	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 1	
BIOL 240 and 240L	BIOL 210A
CHEM 151 and 151L	CHEM 200 and 200L
EOSC 220	Must take at USD
Core Curriculum	General Education
Summer Year 1	
MATH 150	MATH 150
Fall Year 2	
CHEM 152 and 152L	CHEM 201 and 201L
EDUC 381C	Must take at USD
EOSC 222	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 2	
EOSC 300	Must take at USD
EOSC 314	Must take at USD
EOSC 382 or EDTE 310	CHIL 101
Core Curriculum	General Education
Core Curriculum	General Education
Summer Year 2	
EDSP 389P	Must take at USD
Core Curriculum	General Education

**University of San Diego (USD) and San Diego Mesa College (Mesa)
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Program Major: ENVIRONMENTAL SCIENCE (continued)

USD Course	Mesa Course
Fall Year 3	
EDUC 337	Must take at USD
EOSC 301W	Must take at USD
PHYS 136 and 136L	PHYS 125
Core Curriculum	General Education
Spring Year 3	
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
EOSC Elective	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education
Summer Year 3	
Core Curriculum	General Education
Core Curriculum	General Education
Fall Year 4	
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
Spring Year 4	
EOSC 495	Must take at USD
EOSC Elective	Must take at USD
EOSC Elective	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

**University of San Diego (USD) and San Diego Mesa College (Mesa)
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Program Major: MATHEMATICS

USD Course	Mesa Course
Fall Year 1	
MATH 118	MATH 104
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 1	
COMP 150	CISC 190 <u>or</u> 192
MATH 151	MATH 151
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
Summer Year 1	
Core Curriculum	General Education
Fall Year 2	
EDUC 381C	Must take at USD
MATH 160 or 260	CISC 150
MATH 250	MATH 252
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 2	
EDUC 382 or EDTE 310	CHIL 101
MATH 120	MATH 119
MATH 320	MATH 254
MATH 325 or UD	Must take at USD
Core Curriculum	General Education
Summer Year 2	
EDSP 389P	Must take at USD

**University of San Diego (USD) and San Diego Mesa College (Mesa)
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Program Major: MATHEMATICS (continued)

USD Course	Mesa Course
Fall Year 3	
EDUC 337	Must take at USD
MATH 350	Must take at USD
MATH 360	Must take at USD
PHIL 341	Must take at USD
Core Curriculum	General Education
Spring Year 3	
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
MATH 305	Must take at USD
MATH 375 or 380* or 325 or UD <i>*MATH 300 may substitute for MATH 380</i>	Must take at USD
MATH 375 or 380* or 325 or UD <i>*MATH 300 may substitute for MATH 380</i>	Must take at USD <i>Note: Select MATH course not previously completed</i>
Core Curriculum	General Education
Summer Year 3	
Core Curriculum	General Education
Fall Year 4	
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
Spring Year 4	
MATH 375 or 380* or 325 or UD <i>*MATH 300 may substitute for MATH 380</i>	Must take at USD <i>Note: Select MATH course not previously completed</i>
MATH 405	Must take at USD
MATH UD	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

**University of San Diego (USD) and San Diego Mesa College (Mesa)
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Program Major: PHYSICS

USD Course	Mesa Course
Fall Year 1	
CHEM 151 and 151L	CHEM 200 and 200L
MATH 150	MATH 150
Core Curriculum	General Education
Core Curriculum	General Education
Core Curriculum	General Education
Spring Year 1	
CHEM 152 and 152L	CHEM 201 and 201L
MATH 151	MATH 151
PHYS 270 and 270L	PHYS 195
Core Curriculum	General Education
Summer Year 1	
EOSC 110	GEOL 104
BIOL 240 and 240L	BIOL 210A
Fall Year 2	
EDUC 381C	Must take at USD
MATH 250	MATH 252
PHYS 271 and 271L	PHYS 196
PHYS 281	Must take at USD
Core Curriculum	General Education
Spring Year 2	
EDUC 382 or EDTE 310	CHIL 101
MATH 310	Must take at USD
PHYS 272 and 272L	PHYS 197
PHYS 282	Must take at USD
Summer Year 2	
BIOL 242 and 242L	BIOL 210B
EDSP 389P	Must take at USD

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Program Major: PHYSICS (continued)

USD Course	Mesa Course
Fall Year 3	
EDUC 337	Must take at USD
MATH 331	Must take at USD
PHIL 341	Must take at USD
PHYS 319	Must take at USD
PHYS 330	Must take at USD
Spring Year 3	
EDUC 332P	Must take at USD
EDUC 384C	Must take at USD
PHYS 314	Must take at USD
PHYS 3XX	Must take at USD
Core Curriculum	General Education
Summer Year 3	
Core Curriculum	General Education
Core Curriculum	General Education
Fall Year 4	
EDUC 334	Must take at USD
EDUC 491P/S	Must take at USD
Spring Year 4	
PHYS 324	Must take at USD
PHYS 3XX	Must take at USD
PHYS 480W	Must take at USD
Core Curriculum	General Education
Core Curriculum	General Education

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Terms of the Agreement

The University of San Diego (USD)

This articulation agreement is intended for students transferring from San Diego Mesa College (Mesa) to the University of San Diego as part of the ITPP program. Students in the ITPP program may complete core curriculum (general education) courses at San Diego Mesa College throughout ITPP program participation. Students who have earned credit at other colleges and/or universities are subject to the acceptance and use of credit policies of USD.

San Diego Mesa College (Mesa)

This articulation agreement is intended for students transferring from San Diego Mesa College (Mesa) to the University of San Diego as part of the ITPP program. Students in the ITPP program may complete core curriculum (general education) courses at San Diego Mesa College throughout ITPP program participation. Students who plan to attend Mesa and have earned credit at other colleges and/or universities are subject to the acceptance and use of credit policies of the San Diego Community College District.

Effective Dates

This articulation agreement is effective May 2018 through May 2022.


The 2018-2022 ITPP Articulation Agreement has been reviewed and approved by:



JULIETTE PARKER
ARTICULATION OFFICER
San Diego Mesa College
7250 Mesa College Drive
San Diego, CA 92111

5-22-19

Date



KAREN SHELBY, PhD
ARTICULATION COORDINATOR
University of San Diego
5998 Alcalá Park
San Diego, CA 92110

5/22/19

Date