

# Ascending Lights: iGraduate "ROAD MAP TO SUCCESS" Academic Planning Tool

## Cover Sheet

Student's Name Wendy Choi Mentor's Name Susan Rhee

Date Originally Prepared 3/23/13 Revised as of this date \_\_\_\_\_

### 1. Educational Goal:

- ☐ I want to earn a **CERTIFICATE ONLY** (Go to Section A for instructions)
- ☐ I want to earn an **ASSOCIATE DEGREE ONLY** (Go to Section B for instructions)

☒ I want to earn an **ASSOCIATE DEGREE AND TRANSFER TO A CALIFORNIA STATE UNIVERSITY (CSU)** (Go to Section C for instructions)

University Name: CSU - Los Angeles Major: Nursing (BSN)

☐ I want to earn an **ASSOCIATE DEGREE AND TRANSFER TO A UNIVERSITY OF CALIFORNIA (UC)** (Go to Section D for instructions)

University Name: \_\_\_\_\_ Major: \_\_\_\_\_

☐ I want to earn an **ASSOCIATE DEGREE AND TRANSFER TO A PRIVATE UNIVERSITY** (Go to Section E for instructions)

University Name: \_\_\_\_\_ Major: \_\_\_\_\_

☐ **OTHER:** (Please specify) \_\_\_\_\_

2. My Community College is: Pasadena City College

3. My Student ID is: 88123

4. My Password is: 1234

5. My Community College Major will be: (Please check one)

☐ Specific Departmental Major: (Please specify) \_\_\_\_\_

☒ General Studies Major (Please check one below)

- ☐ Arts & Humanities
- ☐ Social & Behavioral Sciences
- ☒ Natural Sciences
- ☐ Liberal Studies

## Ascending Lights: iGraduate "ROAD MAP TO SUCCESS" Academic Planning Tool

### College Assessment Scores and Non Degree Applicable Prerequisite Courses Needed

6. My college assessment test placed me in Math course # 131

In order to achieve my **Educational Goal**, I must take and pass Math course # STAT 50

In order to take the course above I must FIRST take and pass the following Math courses:

PREREQUISITE NDA* MATH COURSES	N	IP	C	Units
MATH 131		4		4
TOTAL PREREQUISITE NDA* MATH UNITS		4		4

7. My college assessment test placed me in English course # 100

In order to achieve my **Educational Goal** I must take and pass English course # ENGL 1A

In order to take the course above I must FIRST take and pass the following English courses:

PREREQUISITE NDA* ENGLISH COURSES	N	IP	C	Units
ENGL 100 English Essentials			4	4
ENGL 901 Writing Center Lab			.3	.3
TOTAL PREREQUISITE NDA* ENGLISH UNITS			4.3	4.3

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\*Note: Non-degree-applicable (NDA) basic skills courses are designed to prepare students for success in college-level classes. NDA courses do not count toward a certificate or degree, and are not transferable.

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# Ascending Lights: iGraduate "ROAD MAP TO SUCCESS" Academic Planning Tool

## Master Planning Worksheet

Course Name and Number	Notes	N	IP	C	Units
<b>MAJOR COURSES FROM CATALOG</b>	Major Courses are those required for your major or occupational field.				
Number Of Major Units Required: <b>18</b>					
1. <b>CHEM 2A</b>				4	4
2. <b>PHYSIO 1</b>		4			4
3. <b>BIO 11</b>	Prerequisite for ANAT 25	4			4
4. <b>NUTRI 11</b>		3			3
5. <b>PSYCH 2</b>	Selected from MAJOR catalog page	3			3
6.					
7.					
8.					
9.					
10.					
11.					
12.					
	<b>UNITS FROM ADDITIONAL WORKSHEET</b>				
	<b>TOTAL UNITS</b>	14	0	4	18
<b>G.E. PROGRESS TRACKER</b>					
Unit summary from my G.E. Progress Tracker:	→ <b>TOTAL UNITS</b>	31	3	10	44
<b>ARTICULATION AGREEMENT BY MAJOR</b> from <b>WWW.ASSIST.ORG</b>	Circle below the section where you have listed Articul. Agreemt. Courses.				
1. <b>ENGL 1C (4)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
2. <b>ANAT 25 (4)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
3. <b>PHYSIO 1 (4)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
4. <b>CHEM 2A (4)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
5. <b>ENGL 1A (4)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
6. <b>PSYCH 1 (3)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
7. <b>SPEECH 1 (3)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
8. <b>PHILO 25 or 30 (3)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
9. <b>NUTRI 11 (3)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
10. <b>PSYCH 24 (3)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
11. <b>SOC 1 (3)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
12. <b>STAT 50 (4)</b>	MAJOR <b>G.E.TRACKER</b> OTHER				
<b>OTHER (i.e. electives, degree applicable prerequisites, recommended courses)</b>					
1. <b>Philosophy 25</b>		3			3
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12. <b>ENGL 900 Writing Center Lab (NDA) Required with ENGL 1A</b>		.3			.3
<b>TOTAL PREREQUISITE NDA* MATH UNITS</b>	From Page 2, Item 6		4		4
<b>TOTAL PREREQUISITE NDA* ENGLISH UNITS</b>	From Page 2, Item 7			4.3	4.3
	<b>UNITS FROM ADDITIONAL WORKSHEET</b>				
	<b>TOTAL OTHER UNITS</b>	3.3	4	4.3	11.6
<b>GRAND TOTAL OF UNITS</b>		48.3	7	18.3	73.6

## Additional Worksheet

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## PCC REGISTRATION SERVICES

Unofficial Grades/Advising Transcript

### WENDY CHOI

Course Name	Course Title	Grade	Units Att	Units Comp	Grade Points	GPA
<b><u>Spring 2012</u></b>						
ENGL 100	Reading & Writing skills	B	4	4	12	
ENGL 901	Writing Center Lab	CR	<.3>	.3	.0	
CHEM 2A	Chemistry General, Organic, and Biochemistry	A	4	4	16	
	Term totals		8.0	8.3	28	3.50
<b><u>Summer 2012</u></b>						
SPEECH 1	Fundamentals of Speech	C	3	3	6	
	Term totals		3	3	6	2.00
<b><u>Fall 2012</u></b>						
HISTORY 7A	United States History to 1876	B	3	3	9	
GEOGRAPHY 1	Physical Geography	C	3	3	6	
GEOGRAPHY 1L	Physical Geography Lab	B	1	1	3	
			7	7	18	2.57
<b><u>Spring 2013</u></b>						
MATH 131	Intermediate Algebra		4	In progress		
PSYCH 1	Introductory Psychology		3	In progress		

## WENDY'S PLACEMENT ASSESSMENTS SCORES

Your Placement Assessment placed you in **MATH 131**

Your Placement Assessment placed you in **ENGLISH 100**

Articulation Agreement by Major  
Effective during the 12-13 Academic Year

To: **CSU Los Angeles**From: **Pasadena City College**

Quarter |

Semester

====Nursing - BS====

CSULA is an impacted campus. Campus impaction requires that we give priority admission consideration to first time freshman applicants and upper division transfers from within our local area. For additional information regarding impaction please visit <http://www.calstatela.edu/univ/admiss/impaction/>

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Program Impaction Criteria for Students Entering Fall 2013

Admission criteria for the School of Nursing is stipulated on the application form available at [www.calstatela.edu/academic/hhs/nursing/nurs\\_adm.php](http://www.calstatela.edu/academic/hhs/nursing/nurs_adm.php)

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**University Requirement:**

ENGL 102	Composition II	(4)	ENGL 1C	Intermediate	(4)
				Composition - Critical	
				Thinking and Argument	

**A minimum C grade is required**

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**Admission to the Program**

The program consists of two pathways to the degree. One is the basic program in which students are admitted to lower division nursing following completion of prerequisite courses. The second is the R.N. transfer program in which transfer from community college with an Associate of Arts or Associate of Science in Nursing, or from an NLNAC accredited Diploma Program and have a California R.N. License. These students are admitted to upper division nursing.

Admission to the nursing major in the School of Nursing requires a separate application obtained in the School of Nursing advisement office. Applications are accepted September 1 to December 1 of each academic year.

The total number of units required for the BS degree in Nursing is 180-198 quarter units.

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**Required Prerequisites (37 units)**

The following courses are prerequisite to the Nursing major:

BIOL 200A &	Human Anatomy and Physiology I	(5)	PHYSO 2A &	Physiology and Anatomy	(4)
BIOL 200B	Human Anatomy and Physiology II	(5)	PHYSO 2B	Physiology and Anatomy	(4)
			<b>OR</b>		
			ANAT 25 &	General Human Anatomy	(4)
			PHYSO 1	Human Physiology	(4)

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To: CSU Los Angeles, From: Pasadena City College, 12-13

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**Nursing - BS (continued)**

CHEM 151	Fundamentals of Chemistry (5)		CHEM 2A	Chemistry - General, (4)
	I			Organic and
				Biochemistry

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ENGL 101	Composition I	(4)		ENGL 1A	Reading and Composition (4)
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**A minimum C grade is required.**

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MICR 201	& Microbiology for Health (4)			
	Related Sciences			
MICR 202	Microbiology Laboratory (2)			
	for Health Related			
	Sciences			

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PSY 150	Introductory Psychology	(4)		PSYCH 1	Introductory Psychology (3)
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COMM 150	Oral Communication	(4)		SPEECH 1	Fundamentals of Speech (3)
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Completion of one course meeting the general education requirement in critical thinking:

PHIL 160	Critical Thinking	(4)		PHILO 25	Introduction to (3)
					Critical Thinking

OR

				PHILO 30	Logic (3)
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**A minimum C grade is required.**

OR

PHIL 250	Introduction to Symbolic (4)		PHILO 33	Introduction to (3)
	Logic			Symbolic Logic

**A minimum C grade is required.**

OR

POLS 155	Critical Analysis of (4)			
	Political Communication			

**A minimum C grade is required.**

OR

COMM 176	Argumentation	(4)		SPEECH 6	Argumentation and (3)
					Debate

OR

				SPEECH 12	Argumentation and (3)
					Critical Thinking

**A minimum C grade is required.**

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**Requirements for the Major (99-111 units)**

The basic program requires a total of 198 units for the degree, including 114 units in required courses in nursing and related fields. The R.N. transfer program requires a total of 180 units for the degree, including 104 units in required courses in nursing and related fields.

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**Required in Related Fields (12-16 units)**


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NTRS 250	Human Nutrition	(4)		NUTRI 11	Human Nutrition (3)
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To: CSU Los Angeles, From: Pasadena City College, 12-13

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**Nursing - BS (continued)**

PSY 160	Psychology of the Developing Person	(4)	PSYCH 24	Lifespan Developmental Psychology	(3)
SOC 201	Principles of Sociology	(4)	SOCIO 1	Introductory Sociology	(3)
MATH 109	Quantitative Reasoning with Statistics Same as: ECON 109	(4)	STAT 50	Elementary Statistics	(4)

**A minimum C grade is required.**

Students entering with three or more semester units of inferential statistics meet this requirement by transfer credit.

(R.N. Transfer Students are exempt)

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**Required in Nursing (81-95 units)\*****Lower Division Required Courses (44-49 units)**

NURS 100	Introduction to Professional Nursing Process and Skills	(2)			
NURS 105	Introduction to Professional Nursing Process and Skills Laboratory	(1)			
NURS 210	Introduction to Professional Nursing Process and Skills II	(3)			
NURS 211	Introduction to Professional Nursing Process and Skills Laboratory II	(4)			
NURS 214	Introduction to the Art and Science of Nursing	(3)			
NURS 215	Clinical Introduction to Professional and Clinical Practice Issues	(1)			
NURS 216	Nursing Care of Women, Child-bearing Families and Infants	(3)			
NURS 217	Nursing Care of Woman, Child-bearing Families and Infants Lab	(3)			
NURS 220	Nursing Care of Children	(3)			

To: CSU Los Angeles, From: Pasadena City College, 12-13

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**Nursing - BS (continued)**

NURS 221	Nursing Care of Children	(3)	
	Clinical Laboratory		

NURS 222	Acute Professional	(6)	
	Nursing Care of Adults I		

NURS 223	Professional Nurising	(4)	
	Care of Adults Laboratory		
	I		

NURS 224	Acute Professional	(3)	
	Nursing Care of Adults II		

NURS 225	Acute Professional	(4)	
	Nursing Care of Adults		
	Laboratory II		

NURS 250	Introduction to	(4)	
	Pathophysiology for		
	Nursing Practice		

NURS 272	Introduction to Health	(3)	
	Assessment and Promotion		
	Across the Life Span		

NURS 273	Introduction to Health	(2)	
	Assessment and Promotion		
	Across the Life Span		
	Laboratory		

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**END OF MAJOR**



# PASADENA CITY COLLEGE

## CSU GENERAL EDUCATION REQUIREMENTS 2012-2013

The Associate of Arts degree is awarded for completion of 60 units which include the following:  
major or area of emphasis and the CSU general education requirements, detailed below.

Name Choi Wendy  
LAST FIRST MIDDLE  
 Counselor \_\_\_\_\_ Date \_\_\_\_\_

### GENERAL INFORMATION

- To transfer to the CSU system at the junior level, it is necessary to have at least 60 CSU **transferable** units with a minimum 2.0 GPA; minimum general education requirements usually comprise approximately 39 of those units. Major requirements and/or electives complete the remainder of the 60 units. A maximum of 70 CSU transferable units are accepted by any CSU. Consult Counseling Services for more information.
- A single course may **not** meet more than one Area A through E requirement. (American Institutions courses may be applied to Areas C or D.)
- Please consult Counseling Services or a specific CSU catalog for any additional requirements.
- Students expecting to request general education certification should complete 39 units distributed among categories A through E as noted with no less than 30 units for areas A through D. **Areas A and B4 must be fully completed with minimum grades of C.**
- Students whose majors require more than 30 units should consult Counseling Services regarding the advisability of completing all major requirements instead of all general education requirements.
- For additional information consult [www.assist.org](http://www.assist.org).

### GENERAL EDUCATION AREAS AND COURSES

	Needed	In Progress	Completed
<b>AREA A – English Language Communication and Critical Thinking (9 Units)</b> Choose a minimum of three units from each of the following areas: (Must be completed prior to transfer)			
<b>A1 – ORAL COMMUNICATION</b> Speech <u>1</u> , 10			3
<b>A2 – WRITTEN COMMUNICATION</b> English <u>1A</u>	4		
<b>A3 – CRITICAL THINKING</b> English <u>1C</u> Philosophy 25, 30, 33 Physical Science 2 Speech 6, 12	4		
<b>AREA B – Scientific Inquiry and Quantitative Reasoning</b> (9 semester or 12-15 quarter units required with at least one course each from Physical Science, Life Science, and Mathematics/Quantitative Reasoning. At least one of the science courses must contain a laboratory component (see AREA B3 below).			
<b>B1 – PHYSICAL SCIENCES</b> Astronomy 1, 12 Chemistry 1A, 1B, 2A, 2B, 8A, 8B, 22 Environmental Studies 1, 3 Geography <u>1</u> Geology 1, 2, 3, 4, 6, 8, 12, 16, 22, 30A-M Physical Science 3 Physics 1A, 1B, 1C, 1D, 2A, 2B, 10, 31A, 31B			3
<b>B2 – LIFE SCIENCE</b> Anatomy <u>25</u> Anthropology 1 Biology 1A, 1B, 1C, 2, 3, 4, 11, 14, 16, 30, 35, 38, 39 Microbiology 2 Physiology 1, 2A, 2B Psychology 2	4		
<b>B3 – LABORATORY ACTIVITY</b> Anatomy 25 Anthropology 1L Astronomy 1 Biology 1A, 1B, 1C, 2, 3, 4, 11, 14, 16, 30, 38, 39 Chemistry 1A, 1B, 2A, 2B, 8A, 8B, 22 Environmental Studies 1, 3 Geography <u>1L</u> Geology 1, 1F, 2, 2F, 3, 3F, 6, 8, 12F, 12L, 30A-M Microbiology 2 Physical Sciences 3L Physics 1A, 1B, 1C, 1D, 2A, 2B, 10L, 31A, 31B Physiology 1, 2A, 2B			1
<b>B4 – MATHEMATICS/QUANTITATIVE REASONING</b> Business 14B Computer Science 2, 4, 6, 8, 10, 12, 43, 45 Mathematics 3, 5A, 5B, 5C, 7A, 7B, 8, 9, 10, 12, 15, 22, 38, 55 Statistics 15, 18, <u>50</u>	4		



	Needed	In Progress	Completed	
<b>AREA C – Arts and Humanities</b> (9 semester or 12-15 quarter units required with at least one course <i>each</i> in Arts and Humanities area) <b>C1 – ARTS</b> (Art, Dance, Music, Theater) Architecture 24A, 24B Art 1A, 1B, 2, 3A, 3B, 4A, 4B, 4C, 4D, 5, 7, 8, 9 Chinese 22 Dance 21A, 21B French 50 Italian 50 Music 7A, 7B, 21, 22, 23, 24A, 24B, 25, 26, 27, 28, 38A Photography 25 Theater Arts 1, 5, 7A, 7B <b>C2 – HUMANITIES</b> (Literature, Philosophy, Foreign Languages) American Sign Language 10A, 10B Arabic 1, 2 Armenian 1, 2 Chinese 1, 2, 2A, 3, 4, 10, 12 English 1B, 5A, 5B, 9, 10, 11, 24, 25A, 25C, 25D, 25E, 25F, 25G, 25H, 25I, 25J, 26, 30A, 30B, 30C, 44A, 44B, 44C, 45A, 45B, 46A, 46B, 47, 48, 49A, 50, 51, 52, 53, 54, 57, 59, 60, 61, 78A, 78B, 82A, 82B, 82C French 1, 2, 3, 4, 5A, 5B, 6, 10, 12, 16 German 1, 2, 3, 4, 5, 10, 12 Greek 1, 2 Hebrew 1, 2, 3 History 1A, 1B, 2A, 2B, 5A, 5B, 7A*, 7B*, 8, 9A, 9B, 12, 16, 18, 19, 25A*, 25B*, 25C, 25D, 25F, 25I, 27A, 27B, 29A*, 29B*, 30, 31*, 38, 41*, 50 Humanities 1, 2, 3, 4 Italian 1, 2, 3, 4, 10, 12 Japanese 1, 2, 3, 4, 5, 10, 11, 12 Latin 1, 2 Linguistics 10, 11 Philosophy 1, 3, 7, 8, 20A, 20B, 31, 37 Portuguese 1, 2, 3, 4 Religious Studies 1, 2, 3 Russian 1, 2, 3, 4, 11 Spanish 1, 2, 2A, 3, 4, 5, 6A, 6B, 12, 25, 42A, 42B, 44A, 44B	3			
<b>AREA D – Social Sciences</b> (9 semester or 12-15 quarter units required with courses in at least <i>two</i> areas) <b>D0 – SOCIOLOGY AND CRIMINOLOGY</b> Sociology 2, 14, 15, 16, 22, 24, 25, 29, 31, 41 <b>D1 – ANTHROPOLOGY AND ARCHAEOLOGY</b> Anthropology 1, 1L, 2, 3, 4, 5, 12, 31 <b>D2 – ECONOMICS</b> Economics 1A, 1B Geography 5 <b>D3 – ETHNIC STUDIES</b> Anthropology 12, 31 History 12, 29A, 29B, 31, 41 Psychology 29, 31, 41 Sociology 14, 29, 31, 41 <b>D4 – No courses currently available</b> <b>D5 – GEOGRAPHY</b> Geography 2, 3, 5 <b>D6 – HISTORY</b> History 1A, 1B, 2A, 2B, 5A, 5B, 7A*, 7B*, 8, 9A, 9B, 12, 16, 18, 19, 25A*, 25B*, 25C, 25D, 25F, 25I, 27A, 27B, 29A*, 29B*, 30, 31*, 38, 41*, 50 <b>D7 – INTERDISCIPLINARY SOCIAL OR BEHAVIORAL SCIENCE</b> Communication 1 English 12 Environmental Studies 2 Linguistics 12, 14, 16 <b>D8 – POLITICAL SCIENCE, GOVERNMENT, AND LEGAL INSTITUTIONS</b> Political Science 1*, 2, 6, 7, 21, 22 <b>D9 – PSYCHOLOGY</b> Psychology 1, 2, 5, 21, 22, 23, 24, 25, 29, 31, 33, 41	3		3	
<b>AMERICAN INSTITUTIONS REQUIREMENT:</b> All CSU campuses require a U.S. history and an American government course for CSU graduation. This requirement may be met with one asterisked (*) course in U.S. history within Areas C2 or D6, <b>AND</b> with Political Science 1 (Area D8). History 7A*, 7B*, 25A*, 25B*, 29A*, 29B*, 31*, 41* (choose one course) <b>and</b> Political Science 1* (required)	Completed above in D6			
<b>AREA E – Lifelong Learning and Self-Development (3 Units)</b> Anthropology 2 Biology 19 Counseling 12 Dance 1, 2, 3, 4A-H, 5AB, 6AB, 7AB, 8ABC, 9ABC, 10, 11ABC, 13, 15AB, 19ABC, 22ABC, 37ABC (maximum one unit of Dance) English 6, 8 Health Education 2A, 2E, 44 Nutrition 11 Physical Education Activity 3A-E, 27, 28A-B, 29A-C, 30, 32A-C, 33, 34A, 34B, 36, 37, 38, 39A-B, 46A-C, 48A-C, 49A-B, 53, 54A-C, 65A-C, 69, 81A-C (maximum of one unit of PE) Psychology 1, 21, 22, 23, 24 Sociology 2, 22, 24	3			
<input type="checkbox"/> American History and Institutions Requirement met	<b>Total Units (Areas A-E)</b>	31	3	10 = 44

Please consult Counseling Services regarding catalog rights

COMMENTS: \_\_\_\_\_

NOTE: Courses may not be used to meet more than one area

OFFICE USE ONLY

California State University General Education Areas met:

A \_\_\_\_\_ D \_\_\_\_\_  
 B \_\_\_\_\_ E \_\_\_\_\_  
 C \_\_\_\_\_

*Japanese:*  
Jpnse 1, 2, 3, 4, 5

*Latin:*  
Latin 1, 2

*Portuguese:*  
Port 1, 2, 3, 4

*Russian:*  
Russ 1, 2, 3, 4

*Spanish:*  
Span1, 2, 2A, 3, 4, 25, 31

## Music Associate in Arts Degree

### Responsible Division: Performing and Communication Arts

A degree in the Music major from Pasadena City College enables students to develop musical proficiency and prepares students to successfully audition on their primary instrument for acceptance into a university music department or to fulfill the needs of students who wish to have career goals in the field of music. This major is intended to align student course work with preparation for transfer to universities in Music, Music (Performing), Music Education, Music Industry and Technology, Musical Theatre, and other similar fields of study. Such majors are widely available in many CSU, UC, and private schools. Students completing this degree typically continue in the fields of music performance and/or teaching.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. *When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific transfer institutions.*

#### Program Outcomes:

1. Present successful solo performances using appropriate repertoire for their chosen instrument/voice with technical proficiency, musicality and stylistic awareness.
2. Perform and/or participate successfully in small and large ensembles, using time management and interpersonal skills to assist in the production of a collaborative musical work.
3. Write analytical, historical, critical, biographical, and research oriented projects on topics in

music, covering each of the musical-historical periods from the Middle Ages to the modern era.

4. Use standard music references and resources (reference works, periodicals, software, etc.) in both their on and off line formats.
5. Use a variety of technological resources and tools to enhance their performing, composing and music production.

### Requirements for the major (38 units minimum)

Courses must be completed with a grade of C or better. All courses must be numbered 1-99. Students must complete all of the following courses:

*Music:*  
Music 1, 2A, 2B, 2C, 3A, 3B, 3C, 4A, 4B, 4C, 4D, 7A, 7B, 10 (Music 10 must be completed 4 times)

Students must complete four additional units from the following courses:

*Music:*  
Music 8, 9A-L

Recommended:  
*Music:*  
Music 5A, 5B

## Natural Sciences Associate in Arts Degree

### Responsible Division(s): Natural Sciences, Mathematics

This area of emphasis offers a broad and interdisciplinary foundation in the sciences necessary for continued training at the upper division (or advanced) level for many bachelor degree programs in the natural sciences including biology, chemistry, geology, mathematics, physics, and many others. It is a starting point for students who are preparing for careers in business, industry, medicine, health sciences, education, and government, where scientific and technical skills are in great demand.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. *When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific transfer institutions.*

**Program Outcomes:**

1. Successfully apply the scientific method to solve problems and act as a responsible global citizen.
2. Synthesize the major paradigms in 3 of the 5 disciplines in the Natural Sciences Division.
3. Demonstrate adequate preparation for advanced study in one focal discipline within the Natural Sciences Division.

**Requirements for the area of emphasis  
(18 units minimum)**

Courses must be completed with a grade of C or better. All courses must be numbered 1-99. Students must complete 18 units with at least 3 units in three of the following five categories listed below:

*Biological Sciences:*

Anthr 1 and 1L  
 Anat 25 **or** Physo 2A  
 Biol 1A, 1B, 1C, 2, 3, 4, 5A-B, 11, 14, 16, 19, 25, 26, 28, 30, 35, 36, 37, 38, 39, 40  
 Micro 2, Nutri 11  
 Physo 1 **or** Physo 2B  
 Psych 2

*Chemistry:*

Chem 1A, 1B, 2A, 2B, 8A, 8B, 10, 10L, 22

*Environmental Studies:*

Envs 1, 2, 3, 30, 40

*Geosciences:*

Geog 1 & 1L, 10, 30, Geol 1 & 1F, 2 & 2F, 3 & 3F, 4, 6, 8, 16, 22, 23, 24, 30A-M, 40  
 Geol 12 & 12F & 12L

*Mathematics and Statistics:*

Math 3, 5A, 5B, 5C, 7A, 7B, 8, 9, 10, 22, 55, Stat 50

*Physics & Physical Sciences:*

Astron 1, 12  
 Phyc 3 & 3L, 37  
 Phys 1A, 1B, 1C, 1D, 2A, 2B, 10 & 10L, 31A, 31B

**Russian****Associate in Arts Degree****Responsible Division: Languages**

The Russian program offers a broad spectrum of courses, ranging from language instruction to studies of civiliza-

tion, culture, literature, and the arts. Language courses focus on all four skills—reading and listening comprehension, writing, and speaking. Non-language courses provide training in critical thinking while exploring cultural and literary themes in a historical context. The purpose of this major is twofold: to develop proficiency in written and spoken communication as well as to foster an understanding and appreciation of cultural diversity. The skills acquired will prepare students to pursue careers in education, journalism, business, linguistics, art, music, and international relations.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. *When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific transfer institutions.*

**Program Outcomes:**

1. Demonstrate language skills and cultural knowledge in Russian by submission of a portfolio of completed work.

**Requirements for the major in Russian  
(18 units minimum)**

Courses must be completed with a grade of "C" or better. Students must complete a minimum of eighteen (18) units selected from the courses listed below.

*Russian:*

Russ 2, 3, 4, 11

**Social and Behavioral Sciences  
Associate in Arts Degree****Responsible Division: Social Sciences**

The degree in social and behavioral sciences is concerned with providing a broad understanding of the social, cultural, and intellectual world in which we live. Social and behavioral science students have a diverse interest in human problems and seek a liberal education in a broad spectrum of understandings, insights, and appreciations. Multidisciplinary in nature, this area of emphasis seeks to provide an understanding of the interrelationships and varied methodologies of its many subject areas. The goal of this area of emphasis is to develop students' intellectual and emotional understanding, appreciation, insights, and flexibility in order for them to succeed in government services, commerce or industry, and teaching. Students who receive an associate degree in the Social and Behavioral Sciences typically continue their