



MODESTO JUNIOR COLLEGE CATALOG ADDENDUM 2014-2015

YOSEMITE COMMUNITY COLLEGE DISTRICT

435 College Avenue
Modesto, California 95350
www.mjc.edu

Catalog Price: \$3.50

ACCREDITED BY:

The Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges
10 Commercial Boulevard, Suite 204
Novato, California 94949
PHONE (415) 506-0234 FAX: (415) 506-0238

ACCJC/WASC is an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education.

The Modesto Junior College Catalog is published annually by the Modesto Junior College Office of Instruction.

2013-2014 Academic Calendar

2013

2014

August

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

8/22 CC In-Service Day
8/23 MJC Institute Day
8/26 Fall Classes Begin

6

January

S	M	T	W	T	F	S
			⊗	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

1/1 New Year's Day
1/9 CC In-Service Day
1/10 Institute Day
1/13 Spring Classes Begin
1/20 Martin L. King Jr. Day
1/27 Census Day
1/27 No penalty drop

16

September

S	M	T	W	T	F	S
1	2	3	4	5	6	7
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

9/2 Labor Day
9/9 Census Day
9/9 No penalty drop
9/23 Last day to apply for a refund for classes dropped by 9/8 (MJC)

24

February

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

2/10 Last day to apply for a refund for classes dropped by 1/19(MJC)
2/14 Lincoln Holiday
2/15-16 Non-Instructional Days
2/17 Washington Holiday

21

October

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

10/4 Last day to file for Graduation & Certificates for Spring 2014 (CC & MJC)

27

March

S	M	T	W	T	F	S
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

3/7 Last day to file for Graduation & Certificates for Summer and Fall 2014 (CC & MJC)

26

November

S	M	T	W	T	F	S
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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

11/11 Veteran's Day
11/14 Last day to withdraw
11/28 Thanksgiving
11/29 Local Holiday
11/30 Non-Instructional Day

22

April

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20	21	22	23	24	25	26
27	28	29	30			

4/7 Last day to withdraw
4/28-5/2 Finals week

26

December

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23	24	25	26	27	28	29
30	31					

12/1 Non-Instructional Day
12/9-13 Finals week
12/14 Fall classes end
12/24-25 Local Holiday
12/24-31 Winter Break
12/31 New Year's Eve

12

May

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

4/28-5/2 Finals week
5/2 Graduation (CC & MJC)
5/3 Spring Classes End
5/26 Memorial Day

3

91 Instructional Days

Legend

- Finals Week
- Holiday ⊗
- Classes Begin ☆
- Last Day of Semester ⬡
- CC In-Service Day ⬆
- Institute Day ⬇

92 Instructional Days

SUMMER 2014

May

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5/12 Summer Classes Begin
5/26 Memorial Day

June

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July

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7/3 Independence Day

August

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24	25	26	27	28	29	30
31						

8/23 Summer Classes End
Revised 10/31/12 - Final

NOTE: Dates provided are for full-term classes only

2014 -2015 Academic Calendar

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Finals Week	Last Day of Semester
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Classes Begin	MJC Institute Day

SUMMER 2015

<p>May</p> <table border="1" style="border-collapse: collapse; width: 100%; text-align: center;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>5/4 Summer Classes Begin</p> <p>5/25 Memorial Day</p>	S	M	T	W	T	F	S						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							<p>June</p> <table border="1" style="border-collapse: collapse; width: 100%; text-align: center;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					<p>July</p> <table border="1" style="border-collapse: collapse; width: 100%; text-align: center;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table> <p>7/2 Independence Day Observed</p>	S	M	T	W	T	F	S					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		<p>August</p> <table border="1" style="border-collapse: collapse; width: 100%; text-align: center;"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr> <tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr> <tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>8/22 Summer Classes End</p>	S	M	T	W	T	F	S							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
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Student Fees* 2014-2015

FEE	AMOUNT	DESCRIPTION
Enrollment Fee:	\$46 (per unit)	California residents must pay an enrollment fee of \$46 per unit per semester (subject to change by the California State Legislature). Enrollment fees may be waived for students who qualify for the Board of Governors Grant Fee Waiver Program and for those who enroll in apprenticeship courses only. Dependents of service-connected disabled or service-connected deceased veterans may be eligible for a waiver of fees. Please contact the campus Veteran's Office in the Student Services Building, Room 201 for assistance. For fee waiver information students should contact the Financial Aid Office in Yosemite Hall. Special part-time students are students who are concurrently enrolled in K-12th grade and who enroll in fewer than 12 units at a community college. They are exempt from paying the enrollment fee. To be eligible to enroll in courses, special part-time students must be prepared to undertake college-level work and must be approved by the student's high school principal and parent or legal guardian. At MJC, special part-time students must be at least 14 years of age. Special part-time students may enroll in a maximum of 11 units per semester.
Non-Resident Tuition:	\$219 (per unit)	A U.S. citizen who is not a legal resident of California and all others who are classified as non-residents are required to pay a non-resident tuition fee of \$219 per unit per semester. The international student tuition fee is \$219 per unit per semester. The tuition fee is in addition to the Enrollment Fee and all other required fees.
Health Fee:	\$18	A \$18 Health Fee must be paid each semester (\$15 Summer) by students who enroll in a credit course that is longer than 16 hours, held on-campus or off-campus within the district, or those enrolled in non-credit courses held on campus, or those enrolled in on campus contract education courses. The Health Fee may be waived for students who are indentured apprentices enrolled in apprenticeship classes only, or for those who depend exclusively on prayer for healing, with approval of the Vice President of Student Services. Per Education Code Section 76355, fee subject to change by \$1 based on the <i>Implicit Price Index</i> for State and Local Government Agencies.
Student Center Fee:	\$1	Students voted in Spring 2000 to assess a Student Center fee of \$1 per unit to a maximum of \$10 per fiscal year, to establish an annual building/operating fund for the Mary Stuart Rogers Student Learning Center on the West Campus.
Student Representation Fee:	\$1	A \$1 fee established by two-thirds vote of the student body. Money collected will be used by ASMJC to represent student concerns at local, state, and federal government levels. Students may refuse to pay the fee for religious, political, financial, or moral reasons. A refusal to pay the fee must be submitted in writing to the Business Services Office.
Student Benefits Fee:	\$5	Payment gives you automatic membership in ASMJC (Associated Students of Modesto Junior College) and discounts (See "Student Benefit Sticker on page 77 for more information). This optional \$5 fee is automatically assessed. You may refuse to pay this fee by completing the <i>Student Benefit Fee Waiver</i> form available in the Business Office, or PiratesNet under Online Forms.
Parking Fee:	(Varies)	Student parking permits are available for \$30 a semester (summer term is \$15) or \$2 per day. Motorcycle fee is \$7.50 per semester. The parking fee is not required for disabled students with a disabled DMV placard. Parking permits must be picked up in person. Picture ID is required. Students who purchase an auto permit for the semester and have proof of a motorcycle license are eligible for a free motorcycle permit for the same semester. Parking fees are subject to change.
Debts To The College:	(Varies)	Any individual who has incurred, but not paid, a debt to the college may be denied grades, transcripts, degrees, some services, and registration privileges.
Materials Fees:	(Varies)	This serves as payment for required instructional and other materials which are of continuing value to the student outside of the classroom setting and which the student must procure or possess as a condition of registration, enrollment, or entry into a class; or any material which is necessary to achieve the required objectives of a course.
Other Expenses:	\$200 - \$600	Textbooks, stationery and supplies will amount to approximately \$200 to \$600 per semester.
Transcript Verification:	(Varies)	The first two transcripts are provided free. A fee of \$10.00 per transcript is charged after the first two, payable at the time of the request. A \$15.00 fee is charged for 24-hour transcript service, and a \$20.00 fee is charged for on-the-spot transcript service.
Enrollment Verification:	(See note)	The first two verifications are provided free. A fee of \$7 per verification is charged after the first two, payable at the time of the request. A \$15 fee is charged for next day service and a \$20 fee is charged for same-day service. No charge is made for loan deferment or financial aid GPA verifications. See "Enrollment and Grade Verification" on page 66 for more information.
Course Audit Fee:	\$15 (per unit)	A fee of \$15 per unit is required of students who have met the repetitions limit for credit courses, payable at the MJC Business Services Offices. Students enrolled in 10 or more units at the time audit enrollment occurs will not be assessed the fee for up to 3 units. See .
Other Fees:	(Varies)	Fines for overdue library books or other equipment and parking fines are among special charges authorized by the Board of Trustees
Field Trip Fees:	(Varies)	Appropriate fees will be charged for those field trips scheduled to destinations outside California and for some long distance field trips outside the Yosemite Community College District.

* Fees are subject to change through State Legislation and Governing Board implementation as judged to be in the best interest of the California Community Colleges and the students at Modesto Junior College.

C-ID TABLE

C-ID #	Title	MJC Course ID
ACCT 110	Financial Accounting.....	BUSAD 201
ACCT 120	Managerial Accounting.....	BUSAD 202
AGAB 108	Agricultural Computer Applications.....	AGEC 225
AJ 110	Introduction to Criminal Justice.....	ADJU 201
AJ 120	Concepts of Criminal Law.....	ADJU 203
AJ 122	Criminal Court Process.....	ADJU 202
AJ 124	Legal Aspects of Evidence.....	ADJU 204
AJ 140	Criminal Investigation.....	ADJU 212
AJ 200	Introduction to Corrections.....	ADJU 235
AJ 220	Juvenile Procedures.....	ADJU 232
ANTH 150	Introduction to Archeology.....	ANTHR 130
ARTH 110	Survey of Western Art from Prehistory through the Middle Ages.....	ART 164
ARTH 120	Survey of Western Art from Renaissance to Contemporary.....	ART 165
ARTH 130	Survey of Asian Art.....	ART 169
ARTH 150	Survey of Modern Art.....	ART 163
ARTS 100	2-D Foundations.....	ART 124
ARTS 101	3-D Foundations.....	ART 125
ARTS 110	Fundamentals of Drawing.....	ART 120
ARTS 200	Figure Drawing.....	ART 123
ARTS 205	Intermediate Drawing.....	ART 121
ARTS 210	Introduction to Painting.....	ART 147
BIOL 190	Cell and Molecular Biology.....	BIO 101
BUS 110	Introduction to Business.....	BUSAD 248
BUS 115	Business Communication.....	BUSAD 210
BUS 125	Business Law.....	BUSAD 218
CLDEV 100	Child Growth and Development.....	CLDDV 103
CLDEV 110	Child, Family and Community.....	CLDDV 109
CHEM 101	Introduction to Chemistry.....	CHEM 143
COMM 110	Public Speaking.....	COMM 100 (formerly listed as SPCOM 100)
COMM 120	Argumentation or Argumentation and Debate.....	COMM 104 (formerly listed as SPCOM 104)
COMM 120	Argumentation or Argumentation and Debate.....	COMM 107 (formerly listed as SPCOM 107)
COMM 130	Interpersonal Communication.....	COMM 103 (formerly listed as SPCOM 103)
COMM 140	Small Group Communication.....	COMM 106 (formerly listed as SPCOM 106)
COMM 150	Intercultural Communication.....	COMM 130 (formerly listed as SPCOM 130)
COMM 160B	Forensics (Speech and Debate).....	COMM 105 (formerly listed as SPCOM 105)
COMM 170	Oral Interpretation of Literature.....	COMM 120 (formerly listed as SPCOM 120)
COMM 190	Introduction to Persuasion.....	COMM 110 (formerly listed as SPCOM 110)
COMP 122	Programming Concepts and Methodology I.....	CSCI 271 (formerly listed as CMPSC 205)
COMP 132	Programming Concepts and Methodologies II.....	CSCI 272 (formerly listed as CMPSC 261)
COMP 142	Computer Architecture and Organization.....	CSCI 273 (formerly listed as CMPSC 241)
COMP 152	Discrete Structures.....	CSCI 204 (formerly listed as CMPSC 219)
ECE 120	Principle and Practices of Teaching Young Children.....	CLDDV 101
ECE 130	Introduction to Curriculum.....	CLDDV 107
ECE 200	Observation and Assessment.....	CLDDV 167
ECE 220	Health, Safety and Nutrition.....	CLDDV 111
ECE 230	Teaching in a Diverse Society.....	CLDDV 262
ECON 201	Principles of Microeconomics.....	ECON 102
ECON 202	Principles of Macroeconomics.....	ECON 101
ENGL 100	College Composition.....	ENGL 101
ENGL 105	Argument, Writing and Critical Thinking.....	ENGL 103
ENGL 120	Introduction to Literature.....	ENGL 102
ENGL 130	Survey of American Literature 1.....	ENGL 135
ENGL 135	Survey of American Literature 2.....	ENGL 136
ENGL 140	Survey of World Literature 1.....	ENGL 131
ENGL 145	Survey of World Literature 2.....	ENGL 132
ENGL 160	Survey of British Literature 1.....	ENGL 137
ENGL 165	Survey of British Literature 2.....	ENGL 138
ENGL 180	Children's Literature.....	ENGL 169
GEOG 110	Introduction to Physical Geography.....	GEOG 101
GEOG 120	Introduction to Human Geography.....	GEOG 102
GEOG 125	World Regional Geography.....	GEOG 110
GEOG 140	California Geography.....	GEOG 104
GEOG 155	Introduction to Geographic Information Systems and Techniques, with Lab.....	GEOG 109

C-ID TABLE CONTINUED

C-ID #.....	Title.....	MJC Course ID
GEOL 100.....	Physical Geology	GEOL 160
GEOL 101.....	Physical Geology with Lab.....	GEOL 161
GEOL 111.....	Historical Geology with Lab.....	GEOL 166
GEOL 121.....	Earth Science with Lab.....	EASCI 161
GEOL 200.....	Geology of California.....	GEOL 165
HIST 140.....	United States History from 1865	HIST 102
HIST 170.....	Western Civilization I.....	HIST 104
HIST 180.....	Western Civilization II.....	HIST 105
IT IS 120.....	Bus Inform Systms, Cmptr Inform Systms.....	CSCI 220 (formerly listed as CMPSC 202)
KIN 100.....	Introduction to Kinesiology.....	PE 124
KIN 101.....	First Aid and CPR.....	HE 101
MATH 210.....	Single Var. Calculus I Early Transcendentals	MATH 171
MATH 220.....	Single Var. Calculus II – Early Transcendentals	MATH 172
MATH 900S	Single Variable Calculus Sequence.....	MATH 171 and MATH 172
MUS 100.....	Music Appreciation	MUSG 101
MUS 110.....	Music Fundamentals.....	MUST 101
MUS 120.....	Music Theory 1	MUST 121
MUS 125.....	Musicianship 1	MUST 131
MUS 130.....	Music Theory 2	MUST 122
MUS 135.....	Musicianship 2	MUST 132
MUS 140.....	Music Theory 3	MUST 123
MUS 150.....	Music Theory 4	MUST 124
MUS 155.....	Musicianship 4	MUST 134
MUS 160.....	Applied Music	MUSA 124 or MUSA 154
MUS 180.....	Large Ensemble.....	MUSE 145 or MUSE 156 or MUSE 165 or MUSE 181
PHIL 100.....	Introduction to Philosophy	PHILO 101
PHIL 120.....	Introduction to Ethics.....	PHILO 111
PHIL 130.....	History of Ancient Philosophy	PHILO 120
PHIL 140.....	History of Modern Philosophy	PHILO 121
PHIL 210.....	Symbolic Logic	CSCI 203/PHILO 103 (formerly listed as CMPSC 103)
PHYS 100S.....	Algebra/Trig Based Physics AB	PHYS 142, PHYS 143
PHYS 105.....	Mechanics, Heat Wave	PHYS142
PHYS 110.....	Algebra/Trig Based Physics B.....	PHYS 143
PHYS 200S.....	Calculus-Based Physics for Scientists and Engineers: ABC	PHYS 101 and PHYS 102 and PHYS 103
PHYS 205.....	Calculus-Based Physics for Scientists and Engineers: A.....	PHYS 101
PHYS 210.....	Calculus-Based Physics for Scientists and Engineers: B.....	PHYS 103
POLS 110.....	Intro to American Government and Politics	POLSC 101
POLS 120.....	Introduction to Political Theory and Thought	POLSC 130
POLS 130.....	Introduction to Comparative Government and Politics.....	POLSC 140
POLS 140.....	Introduction to International Relations	POLSC 110
PSY 110.....	Introductory Psych	PSYCH 101
PSY 115.....	Psychology of Personal and Social Adjustment	PSYCH 130
PSY 120.....	Introduction to Abnormal Psychology.....	PSYCH 105
PSY 130.....	Introduction to Human Sexuality	PSYCH 110
PSY 150.....	Intro to Biological Psychology.....	PSYCH 103/PHYSO 103
PSY 170.....	Introduction to Social Psychology	PSYCH 104
PSY 200.....	Introduction to Research Methods	PSYCH 102
SOCI 110.....	Introduction to Sociology.....	SOCIO 101
SOCI 115.....	Social Problems.....	SOCIO 102
SOCI 130.....	Introduction to Marriage and Family.....	SOCIO 125
SOCI 150.....	Introduction to Race and Ethnicity	SOCIO 150
THETR 111.....	Introduction to Theatre.....	THETR 100
THTR 151.....	Acting I.....	THETR 160
THTR 152.....	Acting II	THETR 161
THTR 171.....	Stagecraft	THETR 105
THTR 173.....	Intro. to Stage Lighting or Lighting Design Fund.	THETR 182
THTR 174.....	Intro. to Stage Costume or Fund. of Costume Design.....	THETR 175
THTR 175.....	Intro. to Stage Makeup or Stage Makeup	THETR 174
THTR 191.....	Rehearsal and Performance in Production	THETR 133 or 134 or 136 or 156 or 157 or 158 or 159
THTR 192.....	Technical Theatre in Production	THETR 190

Degrees, Certificates and Skills Recognitions Offered at MJC

TITLE OF AWARD	AWARD TYPE	PG.	TITLE OF AWARD	AWARD TYPE	PG.	TITLE OF AWARD	AWARD TYPE	PG.
Accounting	C AS	142	Computer Science	AA AS	195	Nursing, LVN 30-Unit Option	C	272
Accounting Clerk	C	142	Crop Science	AS	293	Nursing, LVN to ADN	AS	270
Administration of Justice	AS AST	143	CSU-GE Transfer Pattern	C	224	Office Administration	C AS	275
Adv. Heavy Eqpmnt Technician	C	150	Dairy Science	AS	156	Office Computer Applications	C	279
Agricultural Business	AS	147	Earth Science	UPE	200	Office Support	C	279
Agriculture-Sales, Service (C: Technician)	C AS	147	Electronics Tech-Comp Electronics	C	191	Philosophy	AAT*	*
Agricultural Science	AS UPE	153	Emergency Medical Technician(EMT)	SR	203	Physical Education	AA	281
Animal Science	AS	155	English	AAT	207	Physics	AST	291
Anthropology	AAT	161	Environmental Horticultural Science	AS	212	Political Science	AAT*	*
Art	AA	164	Environmental Science	UPE	215	Poultry Science	AS	156
Art: History	AAT	163	Ethnic Studies	SR	216	Professional Selling	C	296
Art: Photography	AA	280	Fire Science	C AS	218	Psychology	AAT	296
Art: Studio Arts	AAT	163	Fire Science (Fire Academy)	SR	217	Psychosocial Rehabilitation	SR	298
Artificial Insemination Technician	C	157	Forestry	C AS	223	Real Estate (C: Real Estate Broker SR: Real Estate Salesperson)	SR C AS	299
Athletic Training/Sports Medicine	AS	168	Fruit Science	AS	293	Recording Arts	SR	301
Autobody/Collision Repair	C	168	Geography	AAT*	228*	Records Management/Data-Entry	C	301
Autobody/Refinishing	SR AS	168	Geology	AST	229	Recreational Land Management	C AS	265
Automotive Engines & Transmission	C	*	Gerontology	SR	231	Respiratory Care	AS	302
Automotive Maintenance	C	170	Health and Physical Education	UPE	232	Retail Management (WAFCC)	C	305
Automotive Technician	C AS	170	Heavy Machinery Management	C	150	Social and Behavioral Sciences	GSE	227
Basic Heavy Equipment Technician	C	150	History	AAT	233	Sociology	AAT	307
Biological Sciences	UPE	172	Humanities	UPE GSE	238 224	Soil Science	AS	265
Bookkeeping	C AS	174	Human Services	C AA	235	Spanish	AA	308
Business Administration	AS AST	175	IGETC Transfer Pattern	C	224	Supervisory Management	C AS	310
Business Operations: Management	AS	178	Industrial Electronics	C AS	240	Supervisory Mgmt in Public Safety	SR	144
Chemistry	UPE	179	International Business	C	241	Theatre	AA AAT	311
Chemical Dependency Counseling	AA	179	Kinesiology	AAT	242	Theatre: Design and Technical	SR	312
Child Development	AS		Landscape and Park Maintenance	C	212	Theatre: Performance	SR	313
Child Devt. Assoc. Teacher	C		Landscape Design	C	213	Veterinary Technician	C	157
Child Devt. Teacher	C		Language and Rationality	GSE	226	Welding	AS	
Child Devt. Master Teacher	C	181-183	Language Studies	UPE	242	Welding: Design & Fabrication	SR	318-
Child Devt. Site Supervisor	C		Liberal Studies (Teacher Prep)	UPE	243	Welding: Gas Metal Arc Welding and Gas Tungsten Arc Welding	SR	319
Child Devt. Early Intervention Asst. 2	C		Machine Tool Technology	AS	245	Welding: Pipe Welding	SR	
Child Devt. Early Childhood Edu	AST	*	Machine Tool Technology 1	C	245	Word Processing	C	320
Clerical	C AS	186	Machine Tool Technology 2	C	245			
CNC Operator	SR	245	Maintenance Machinist 1	SR	249			
CNC Programmer	SR	246	Maintenance Machinist 2	C	248			
Commercial Floristry Technician	C	212	Mathematics	AST	249			
Communication Studies	C* AA AAT	187*	Marketing	AS	249			
Computer Applications Specialist	C	190	Mechanized Agriculture	C AS	149			
Computer Electronics	AS	190	Medical Assisting	C AS	252			
Computer Graphics Applications	C AS	192	Music	AA AAT	255			
Computer Information Systems	AS	194	Natural Sciences	GSE	227			
Computer Network Administration	C	267	Nursery Production	C	213			
Computer Network Technician	C	268	Nurse Assistant (for CNA)	SR	272			
Computer Programming Specialist	C	195	Nursing, Associate's Degree (for RN)	AS	269			

LEGEND

AA:	Associate in Arts Degree
AAT:	Associate in Arts Degree for Transfer
AS:	Associate in Science Degree
AST:	Associate in Science Degree for Transfer
GSE:	General Studies Emphasis (Non-transfer)
UPE:	University Preparation Emphasis (for Transfer)
C:	Certificate of Achievement
SR:	Skills Recognition
*:	Catalog Addendum

Courses

COMM 123—STORYTELLING

3 UNITS

54.00 Lecture Hours

Also offered as: THETR - 123

Formerly listed as: SPCOM - 123: Storytelling

Introduction to the art of storytelling focusing on the preparation and presentation of literature. Emphasis is placed upon selection of materials, analysis, preparation, and presentation of various genres of stories. Designed to develop the adult reader's knowledge, critical ability and appreciation of literature, as well as critical listening of others sharing literature. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC), General Education: (MJC-GE: C) (CSU-GE: C1)

ENGL 48—GRAMMAR REVIEW

1 UNIT

18.00 Lecture Hours

Students will review the fundamentals of standard English grammar. They will practice recognizing and correcting errors in grammar and usage. Field trips are not required. (A-F or P/NP)

ENGL 111—CREATIVE WRITING: CREATIVE NONFICTION

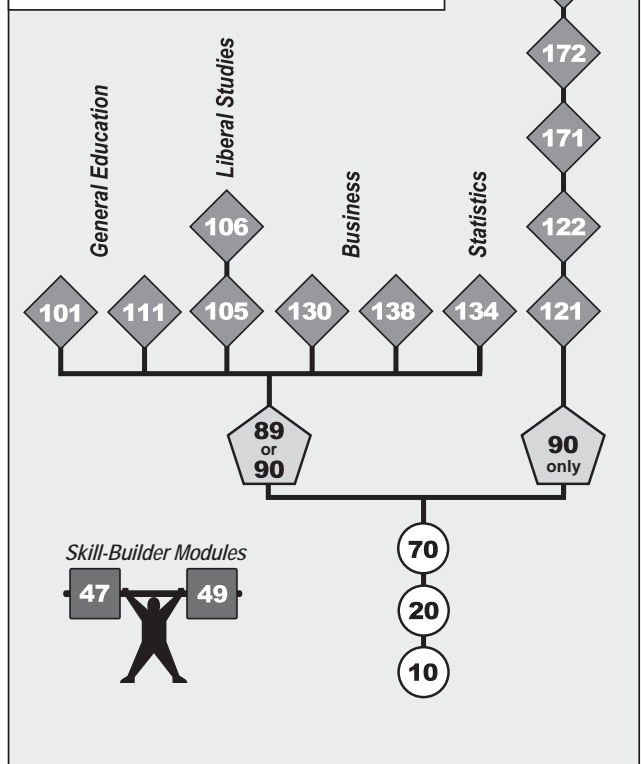
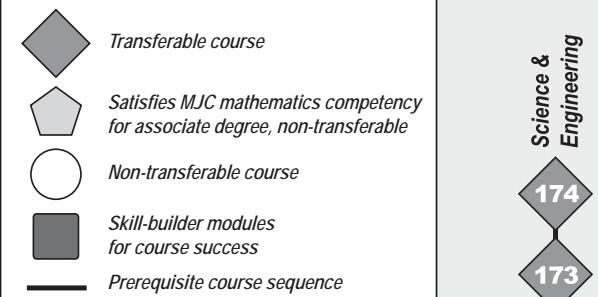
3 UNITS

54.00 Lecture Hours

Prerequisite: Satisfactory completion of ENGL 101.

Instruction and practice in writing Creative Nonfiction, also known as Literary Nonfiction, with an emphasis on the personal essay. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC), General Education: (MJC-GE: C)

Mathematics Course Sequence and Options



<p>MATH 105—STRUCTURE OF MATHEMATICS 1 4 UNITS</p> <p><i>72.00 Lecture Hours</i></p> <p><i>Prerequisite: Satisfactory completion of MATH 90 or MATH 89 or qualification by the MJC assessment process.</i></p> <p>Structure of arithmetic for prospective elementary school teachers. The definitions, operations, and properties of sets, counting numbers, integers, rational and irrational numbers; numeration systems; number theory, logic. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) (CC: MATH 4A) General Education:(MJC-GE: D2) (CSU-GE: B4)</p>	<p>PEA 141—ADAPTED FITNESS 1 UNIT</p> <p><i>54.00 Lab Hours</i></p> <p><i>Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of disability and recommendation of medical specialist.</i></p> <p>A specialized course in physical exercise which includes individual and group exercises that include development of an overall fitness routine involving all aspects of body conditioning: balance, flexibility, functional motor control, developmental movement, strength and endurance. There will be an emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) Graduation: (MJC: Activities)</p>
<p>MATH 134—ELEMENTARY STATISTICS 5 UNITS</p> <p><i>90.00 Lecture Hours</i></p> <p><i>Prerequisite: Satisfactory completion of MATH 90 or MATH 89 or qualification by the MJC assessment process.</i></p> <p>Elements of descriptive and inferential statistics, including probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, and nonparametric statistics. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) (CC: MATH 2) (C-ID: SOCI 125 = Introduction to Statistics in Sociology) General Education: (MJC-GE: D2) (CSU-GE: B4) (IGETC: 2)</p>	<p>PEC 149—MODERN DANCE 4 1 UNIT</p> <p><i>54.00 Lab Hours</i></p> <p><i>Also offered as: THETR - 176</i></p> <p><i>Prerequisite: Satisfactory completion of THETR 185.</i></p> <p>Learn, practice and apply intermediate modern dance skills learned in Modern Dance 3 toward the refinement of technical and artistic expression characteristic of advanced level technique. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Graduation: (MJC: Activities)</p>
<p>MUSC 122—ELECTRONIC MUSIC 2 2 UNITS</p> <p><i>18.00 Lecture Hours, 54.00 Lab Hours</i></p> <p><i>Formerly listed as: MUSIC - 171: Electronic Music 2</i></p> <p><i>Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete MUSC 121 or have previous synthesizer, tape recording and MIDI music studio experience.</i></p> <p>Applied topics in electronic music composition, MIDI (Musical Instrument Digital Interface) music studio procedures, sampling, tape and digital recording Performance in an electronic music concert is expected. Two completions allowed. Field trips are not required. (A-F or P/NP) Transfer: (CSU) Graduation: (MJC: Activities)</p>	<p>PEC 169—INTERMEDIATE SWIMMING 1 UNIT</p> <p><i>54.00 Lab Hours</i></p> <p><i>Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 168.</i></p> <p>Continued development in basic stroke techniques and endurance for intermediate swimming. Field trips are not required. (A-F or P/NP) Graduation: (MJC Activities) Transfer: (CSU, UC)</p>
<p>PEA 116—ADAPTED RUN/WALK 1 UNIT</p> <p><i>54.00 Lab Hours</i></p> <p><i>Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or learning disability.</i></p> <p>Personalized and group exercises that include development of an overall fitness routine involving conditioning for walking and/or running: balance, gait, functional motor control, developmental movement, strength and endurance. Emphasis on encouraging independence and teaching lifelong fitness knowledge and skills. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC) Graduation: (MJC: Activities)</p>	<p>PEW 181—DEFENSIVE SOFTBALL 1 UNIT</p> <p><i>54.00 Lab Hours</i></p> <p>Focus on a defensive perspective of conditioning, training, skills, and strategies for collegiate softball. Field trips are not required. (A-F Only) Transfer: (CSU, UC)</p>
<p>PEA 119—ADAPTED SPORTS 1 UNIT</p> <p><i>54.00 Lab Hours</i></p> <p><i>Recommended for Success: Before enrolling in this course, students are strongly advised to provide medical verification of physical or developmental disability.</i></p> <p>Introduces students with physical and/or developmental disabilities to a variety of sports. Students will safely participate in sports such as, but not limited to, softball, volleyball, tennis, frisbee, soccer, basketball, and golf. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC)</p>	<p>THETR 123—STORYTELLING 3 UNITS</p> <p><i>54.00 Lecture Hours</i></p> <p><i>Also offered as: COMM - 123</i></p> <p><i>Formerly listed as: SPCOM - 123: Storytelling</i></p> <p>Introduction to the art of storytelling focusing on the preparation and presentation of literature. Emphasis is placed upon selection of materials, analysis, preparation, and presentation of various genres of stories. Designed to develop the adult reader's knowledge, critical ability and appreciation of literature, as well as critical listening of others sharing literature. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC), General Education: (MJC-GE: C) (CSU-GE: C1)</p>
	<p>THETR 130—JAZZ 3 INTERMEDIATE/ADVANCED 1 UNIT</p> <p><i>Also offered as: PEC - 132</i></p> <p><i>54.00 Lab Hours,</i></p> <p><i>Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete THETR 129 or satisfactorily complete PEC 129.</i></p> <p>This course is a continuation of Jazz 2. This course is a combined intermediate and advanced Jazz Dance Technique class that will continue to build on dance terminology in theory and practical training. Audition required. Field trips are not required. (A-F or P/NP) Transfer: (CSU, UC)</p>

THETR 133—REHEARSAL AND PERFORMANCE 1 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Participation as actors in a fully supported theatre production. This introductory course focuses on ensemble performance techniques that are essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Transfer: (CSU, UC) (C-ID: THTR 191 = Rehearsal and Performance in Production)

THETR 134—REHEARSAL AND PERFORMANCE 2 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Participation as an actor cast in a fully supported theatre production. This course focuses on techniques essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Transfer: (CSU, UC) (C-ID: THTR 191 = Rehearsal and Performance in Production)

THETR 135—REHEARSAL AND PERFORMANCE 3 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to successful audition process and get cast in a role.

Participation as an actor with intermediate skills level in a fully supported theatre production. This course focuses on the intermediate techniques essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Transfer: (CSU, UC) (C-ID: THTR 191 = Rehearsal and Performance in Production) Graduation: (MJC: Activities)

THETR 136—REHEARSAL AND PERFORMANCE 4 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass the audition process and get cast in a role.

Participation as an actor with advanced skills level in a fully supported theatre production. This course focuses on advanced techniques essential for a play production. Participation in rehearsals and public performances is required. Field trips are not required. (A-F Only) Transfer: (CSU, UC) (C-ID: THTR 191 = Rehearsal and Performance in Production) Graduation: (MJC: Activities)

THETR 149—DANCE REPERTORY TOURING COMPETITION **1 UNIT***54.00 Lab Hours*

Preparation of dance participants for attendance at the American College Dance Festival and other competitive conferences. Field trips might be required. (A-F Only) Transfer: (CSU, UC)

THETR 151—DANCE REHEARSAL & PERFORMANCE 1 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass an audition.

This course is designed to provide students with the opportunity for intensive preparation, performance, and appraisal of choreography for public performances. Field trips might be required. (A-F Only) Transfer: (CSU, UC)

THETR 152—DANCE REHEARSAL & PERFORMANCE 2 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Study, production and performance of dance. Field trips might be required. (A-F Only) Transfer: (CSU, UC)

THETR 153—CONTEMPORARY POP DANCE REHEARSAL AND PERFORMANCE **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

Contemporary Pop dance rehearsal and public performance. Audition required. Field trips are not required. (A-F Only) Transfer: (CSU, UC)

THETR 154—DANCE REHEARSAL & PERFORMANCE 3 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass the audition process.

This course is designed to provide students with the opportunity to participate in a concert dance production as a dancer and or choreographer. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Graduation: (MJC: Activities)

THETR 155—DANCE WORKSHOP PERFORMANCE **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass audition process.

This course provides the opportunity for students to create original choreography and or perform in a student showcase. All phases of the dance concert process from auditions to rehearsal to backstage preparation will be covered. Audition required. Field trips might be required. (A-F Only) Transfer: (CSU, UC)

THETR 168—DANCE REHEARSAL & PERFORMANCE 4 **2 UNITS***108.00 Lab Hours*

Limitations on Enrollment: Enrollment limited to students who successfully pass the audition process.

This course is designed to provide students with the opportunity to participate in an intensive preparation for public performance as choreographed by faculty, visiting artists, and or students. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Graduation: (MJC: Activities)

THETR 176—MODERN DANCE 4 **1 UNIT***54.00 Lab Hours*

Also offered as: PEC - 149

Prerequisite: Satisfactory completion of THETR 185.

Learn, practice and apply intermediate modern dance skills learned in Modern Dance 3 toward the refinement of technical and artistic expression characteristic of advanced level technique. Field trips might be required. (A-F or P/NP) Transfer: (CSU, UC) Graduation: (MJC: Activities)

THETR 196—STAGE MANAGEMENT

3 UNITS

Formerly listed as: THETR - 196: Theatre Management

54.00 Lecture Hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete THETR 100.

The functions and duties of stage managers, production managers and directors for live theatre productions are examined. Major topics include the creation of a production book, box office management techniques and the organizational structure of theatrical producing organizations. Field trips might be required. (A-F or P/NP)
Transfer: (CSU, UC) Graduation: (MJC: Activities)

PROGRAMS

Art PROGRAM

The comprehensive MJC Art Program offers several areas of concentration: art history, ceramics, computer graphics, drawing, design, sculpture, water color painting, oil painting, museum studies, and photography. The program is designed to include preprofessional and professional courses, personal enrichment in specific art areas, and classes for students who plan an art-related career. Art courses help students develop a capacity for visual analysis and the ability to solve problems in new and creative ways.

A.A. DEGREE: ART

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate preparedness to successfully continue studies in art at an upper division level.
2. Reproduce, render, and interpret in a variety of media through observation. Plan, design, and produce original works of art.
3. Make informed assessments of quality and effectiveness in works of art, including their own.
4. Identify and distinguish various historical periods of art.

To earn an associate in arts degree in this major, the student must complete the requirements detailed in the Career Technical Education Pathway (p. 101) or the University Preparation Pathway (p. 97) which include completion of the requirements below. Students who plan to transfer to a four-year college or university should consult with an Art faculty advisor and a counselor to ensure that all required transfer courses are completed.

REQUIRED COURSES - COMPLETE 9 UNITS

ART 120	[1]	Basic Drawing 1.....	3
ART 124	[2]	Color and Design 1.....	3
ART 164	[NP]	History of Art 1.....	3
ART 165	[NP]	History of Art 2.....	3

ELECTIVE COURSES - COMPLETE 11 UNITS, WITH NO MORE THAN 1 COURSE IN EACH AREA

DESIGN AND DRAWING AREA

ART 121	[2]	Basic Drawing 2.....	3
ART 123	[2]	Figure Drawing.....	3
ART 125	[3]	Color and Design 2.....	3

THREE-DIMENSIONAL ART AREA

ART 108	[1]	Ceramics 1.....	3
ART 140	[1]	Sculpture 1.....	3

PAINTING AND PRINT MAKING AREA

ART 147	[3]	Painting 1 (In Acrylic).....	3
ART 148	[2]	Painting 1 (In Oil).....	3

ART HISTORY AND APPRECIATION AREA

ART 162	[NP]	History of Renaissance Art.....	3
ART 163	[NP]	History of Modern Art.....	3
ART 164	[NP]	History of Art 1.....	3
ART 165	[NP]	History of Art 2.....	3
ART 168	[1]	Survey of Photography.....	3
ART 169	[NP]	Survey of Asian Art.....	3

PHOTOGRAPHY AND COMPUTER GRAPHICS AREA

ART 102	[1]	Introduction to Computer Graphics.....	3
ART 170	[1]	Basic Photography.....	3
ART 173	[NP]	Digital Imaging for Photographers.....	3
ART 181	[1]	Basic Photography (1).....	1.5
ART 182	[2]	Basic Photography (2).....	1.5

TOTAL UNITS IN A.A. MAJOR 20

Automotive Technology PROGRAM

The Automotive Technology program is designed to provide training in automobile repair, maintenance theory, study of factory manuals and publications, and applications of methods used in the auto servicing and repair industry. The

Automotive Technology Program offers two levels of training: Automotive Technician and Maintenance Mechanic. The Maintenance Mechanic requires less course work. It provides the student with basic automotive skills to perform basic maintenance and service tasks. The Technician program of instruction requires additional training in the more sophisticated technologies. This program prepares students to enter technician jobs that perform diagnostic and repair on complex automotive systems.

CERTIFICATE OF ACHIEVEMENT: AUTOMOTIVE ENGINES AND TRANSMISSIONS

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Demonstrate compliance with current automotive industry safety and environmental standards.
2. Perform maintenance and repair operations to automotive engines and transmissions in accordance with ASE standards.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

REQUIRED COURSES: 21 UNITS

AUTEC 311	[1]	Basic Automotive Systems	4
AUTEC 200	[1]	Automotive Service Management	3
AUTEC 368	[1, 2]	A6: Automotive Electricity/Electronic Systems 1	3.5
AUTEC 315	[2]	Engine Rebuilding	3.5
AUTEC 323	[2]	A2: Automatic Transmission & Transaxles	3.5
AUTEC 324	[2]	A3: Manual Trans and Dr Axles	3.5

TOTAL UNITS 21

Child Development PROGRAM

The Associate in Science in Early Childhood Education for Transfer (AS-T in Early Childhood Education) degree includes lower division coursework that is required for transfer and will provide students with the opportunity to learn valuable skills in creating culturally relevant, inclusive, age-appropriate, anti-bias environments and promote optimum care and learning opportunities. The Associate in Science in Early Childhood Education for Transfer (AS-T in Early Childhood Education) includes courses that are both theoretical and practical, including topics such as curriculum development, program planning, and child growth and development from conception through adolescence.

The Associate in Science in Early Childhood Education for Transfer (AS-T in Early Childhood Education) degree is intended for students who plan to complete a bachelor's degree in Early Childhood Education at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

AST: EARLY CHILDHOOD EDUCATION

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN SCIENCE IN EARLY CHILDHOOD EDUCATION FOR TRANSFER (AS-T IN EARLY CHILDHOOD EDUCATION) DEGREE:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- (2) Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.
2. Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.
4. Develop strategies that promote partnerships between programs, teachers, families and their communities.
5. Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education.

PROGRAM REQUIREMENTS

To earn an Associate in Science for Transfer Degree in this major, the student must complete the requirements detailed in the TMC Pathway which include completion of the requirements below.

REQUIRED CORE - COMPLETE 24 UNITS

CLDDV 101	[1]	Principles and Practices of Teaching Young Children	3
CLDDV 103	[1]	Child Growth and Development	3
CLDDV 107	[1]	Introduction to Curriculum	3
CLDDV 109	[1]	Child - Family - Community	3
CLDDV 111	[2]	Health, Safety, and Nutrition	3
CLDDV 167	[2]	Observation and Assessment	3
CLDDV 262	[2]	Diversity in Educational Settings	3
CLDDV 128	[3]	Preschool Practicum	3 OR
CLDDV 127	[3]	Infant/Toddler Practicum	3

TOTAL UNITS FOR THE MAJOR	24
TOTAL UNITS THAT MAY BE DOUBLE-COUNTED	3-6
GENERAL EDUCATION (CSU GE OR IGETC) UNITS.....	37-39
ELECTIVE (CSU TRANSFERABLE) UNITS	2-3
TOTAL DEGREE UNITS (MAXIMUM)	60

**Note: Double counting courses in GE and the major is permissible.
Guidance and Activities requirements are not required for this degree.*

Communication Studies PROGRAM

The Speech Communication Program at Modesto Junior College offers students a variety of courses which incorporate both theory and performance instruction. These include public speaking, argumentation and debate, organizational communication, intercultural and interpersonal communication, contest speaking and forensics competition which includes debate and individual events. The MJC Forensics Team has captured a number of state and national championships. The program also offers courses in practical speech communication and voice improvement. Most courses are available to students in both day and evening hours.

CERTIFICATE OF ACHIEVEMENT: COMMUNICATION STUDIES

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Construct speeches and other compositions demonstrating clarity of ideas, research skills, proper source citation, logical argument, awareness of audience, and proper outlining techniques.
2. Identify and apply principles of interpersonal communication theory to build functional relationships.
3. Demonstrate critical thinking in the analysis and production of communication.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

ORAL COMMUNICATION AREA - COMPLETE 3 UNITS

COMM 100	[1]	Fundamentals of Public Speaking	3
COMM 102	[1]	Introduction to Human Communication	3
COMM 110	[1]	Persuasion	3

CRITICAL THINKING AREA- COMPLETE 3 UNITS

COMM 104	[3]	Argumentation	3
COMM 107	[3]	Introduction to Debate	3

PROFESSIONAL SKILLS AREA- COMPLETE 3 UNITS

COMM 103	[2]	Interpersonal Communication	3
COMM 130	[2]	Intercultural Communication	3

GROUP AND ORGANIZATIONAL COMMUNICATION AREA- COMPLETE 3 UNITS

COMM 106	[4]	Group & Organizational Communication	3
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TOTAL UNITS..... 12

***Note: This award was formerly listed as a Skills Recognition award.*

Environmental Horticulture Science PROGRAM

In this program the student will develop skills in identifying, using, propagation, planting, and maintenance of ornamental plants and materials used in landscaping. Contact the division office in the Agriculture Building for advising assistance.

CERTIFICATE OF ACHIEVEMENT: LANDSCAPE AND PARK MAINTENANCE

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform practices related to the maintenance of residential and commercial landscapes.
2. Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.
3. Demonstrate effective work habits and interpersonal communication skills required by employers in the landscape and park maintenance industry.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. MAJOR REQUIRED COURSES - COMPLETE 22 UNITS

EHS 201	[1, 2]	Plant Identification & Usage 1	3
EHS 202	[1, 2]	Plant Identification & Usage 2	3
EHS 210	[1]	Introduction to Environmental Horticulture Science	3
EHS 276	[1, 2]	Landscape Maintenance	3
EHS 278	[3, 4]	Landscape Construction and Installation	3
NR 200	[1, 2]	Soils	4
PLSC 200	[1, 2]	Introduction to Plant Science	3

II. AGRICULTURE MAJOR ELECTIVES - COMPLETE 3 UNITS

AGM 200	[2, 3]	Introduction to Mechanical Technology	3
AGM 215	[2, 3]	Machinery Management	3
AGM 230	[3, 4]	Field Surveying	2
AGM 289	[2, 4]	Principles of Power Mechanics/Small Engines	3
EHS 220	[3, 4]	Turfgrass Management	3
NR 222	[3]	Native Tree and Shrub Identification	3
PLSC 250	[2, 3]	Plant Nutrition and Fertilizer	3
PLSC 255	[NP]	Plant Pest Control	3

TOTAL UNITS 25

CERTIFICATE OF ACHIEVEMENT: **NURSERY PRODUCTION**

In this program, the student will develop skills relating to plant identification, propagation, and growing for sale, operations, and maintenance of plant nursery equipment and structures. Contact the division office in the Agriculture Building for advising assistance.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Perform nursery practices necessary to be successful in the nursery production industry.
2. Identify nursery plants grown in California and describe the cultural characteristics and growth habits for each.
3. Demonstrate the effective work habits and interpersonal communication skills required by employers in the nursery production industry.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

MAJOR REQUIRED COURSES - COMPLETE 22 UNITS

EHS 201	[1, 2]	Plant Identification & Usage 1	3
EHS 202	[1, 2]	Plant Identification & Usage 2	3
EHS 210	[1]	Introduction to Environmental Horticulture Science	3
EHS 235	[NP]	Plant Propagation/Production	3
NR 200	[1, 2]	Soils	4
NR 220	[1, 2]	Introductory Forestry	3
NR 222	[3]	Native Tree and Shrub Identification	3

AGRICULTURE MAJOR ELECTIVES - COMPLETE 3 UNITS

AGM 289	[2, 4]	Principles of Power Mechanics/Small Engines	3
EHS 215	[3]	Landscape Design	3
EHS 276	[1, 2]	Landscape Maintenance	3
EHS 278	[3, 4]	Landscape Construction and Installation	3
PLSC 250	[2, 3]	Plant Nutrition and Fertilizer	3
PLSC 255	[NP]	Plant Pest Control	3

TOTAL UNIT..... 25

Forestry PROGRAM

This program will develop entry-level job skills and knowledge in natural resources. The student will develop skills in timber cruising, log scaling, fire fighting, forest inventory, and use of aerial photos sufficient to obtain entry level employment or to transfer to a university. Contact the division office in the Agriculture Building for advising assistance.

CERTIFICATE OF ACHIEVEMENT: **FORESTRY TECHNICIAN**

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Practice safe work habits in an employment setting, including handling and storage of hazardous materials and operation of basic tools and equipment.
2. Apply forestry and land management skills for technical employment in the natural resource management.
3. Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

AG 115 *	[NP]	Introduction to Agricultural Education & Careers	1
AG 249 **	[4]	Agriculture Internship	2 OR
AG 349ABCD	[NP]	Work Experience Agriculture - Supervised Practice ..	1 - 4

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 6 UNITS

PLSC 200	[NP]	Introduction to Plant Science	3
NR 200	[NP]	Soils	4
AGM 200	[NP]	Introduction to Mechanical Technology	3
AGEC 225	[NP]	Agriculture Computer Applications	3

III. AGRICULTURE MAJOR COURSES - COMPLETE 10 UNITS

ENSCI 108	[NP]	Environmental Conservation	3
ENSCI 109	[NP]	Introduction to Geographic Information Systems	3
NR 220 [[NP]	Introductory Forestry	3
NR 222	[NP]	Native Tree and Shrub Identification	3
NR 379	[NP]	Wildland Fire Control	1

IV. AGRICULTURE MAJOR ELECTIVES - COMPLETE 3 UNITS

NR 376	[NP]	Forestry Technology	3
NR 224	[NP]	Intro to Forest Measurement	3
AG 285	[NP]	Agricultural Communications	3
AGM 230	[NP]	Field Surveying	2
AGM 215	[NP]	Machinery Management	3
EHS 276	[NP]	Landscape Maintenance	3

TOTAL UNITS 24

*Required

**Internship/Work Experience must be Agriculture related

Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 349D, or a combination of AG 349A-C, or a combination of AG 249 and AG 349B.

Geography PROGRAM

Geography is the study of spatial aspects of the physical environment, human activities, and the nature of their interactions. Geography draws upon theories from both the physical and social sciences. As physical scientists, geographers study earth processes and the resulting features; climate, soils, vegetation, tectonics, landforms and resources. As social scientists, geographers examine human behaviors and the patterns humans create through economics, religion, language, urbanization, folk and popular culture, and ethnic identities which are reflected in the landscape. Geography utilizes a regional approach to examine the interrelationships between the physical environment, economy, culture, politics and history of specific locations, such as California, Europe or Asia.

The Associate in Arts in Geography for Transfer (AA-T in Geography) degree is intended for students who plan to complete a bachelor's degree in Geography at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

AAT DEGREE: GEOGRAPHY

**Award Formerly Listed As: A.A. DEGREE: UNIVERSITY PREPARATION, EMPHASIS IN GEOGRAPHY

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN GEOGRAPHY FOR TRANSFER (AA-T IN GEOGRAPHY) DEGREE:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- (2) Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better. A "P" (Pass) grade is not an acceptable grade for courses in the major.

**Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Assess the relationship between humans and the environment.
2. Describe and analyze spatial patterns of geographic phenomena.
3. Describe geographical methodology as it pertains to spatial patterns and the application of the scientific method to global problems.

PROGRAM REQUIREMENTS

To receive an Associate of Arts for Transfer degree in Geography, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway. All courses must be completed with a C or better.

REQUIRED CORE: 6-7 UNITS

GEOG 101	[1]	Physical Geography	3
GEOG 102	[2]	Cultural Geography	3

LIST A: SELECT TWO TO THREE (6-7 UNITS)

GEOG 110	[2]	World Regional Geography	3
GEOG 104	[3]	California Geography	3
GEOG 109	[4]	Introduction to Geographic Information Systems	3

LIST B: SELECT TWO (6 UNITS)

Any Course from List A not already used			
GEOG 105	[3]	Economic Geography	3
ECON 101	[NP]	Principles of Macroeconomics	3
ANTHR 102	[NP]	Cultural Anthropology	3

TOTAL UNITS FOR THE MAJOR

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED	12
GENERAL EDUCATION (CSU GE OR IGETC) UNITS.....	37-39
ELECTIVE (CSU TRANSFERRABLE) UNITS	12-17

TOTAL DEGREE UNITS (MAXIMUM)

	60
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Philosophy PROGRAM

Philosophy is the study of fundamental questions such as: What is ultimately real? What is the good life? Does God exist? The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) degree includes lower division coursework that is required for transfer and is an excellent way to refine one's critical reasoning and rational decision-making skills, making it a useful degree for a wide variety of career goals. The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) degree includes courses that help students to construct arguments, to read classic texts carefully, and to formulate crucial questions while providing a deeper grasp of our intellectual heritage.

The Associate in Arts in Philosophy for Transfer (AA-T in Philosophy) degree is intended for students who plan to complete a bachelor's degree in Philosophy at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

AAT DEGREE: PHILOSOPHY

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN PHILOSOPHY FOR TRANSFER (AA-T IN PHILOSOPHY) DEGREE:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- (2) Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better. A “P” (Pass) grade is not an acceptable grade for courses in the major.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Read and analyze key arguments found in primary texts from the philosophical tradition.
2. Construct a clearly written argument employing various philosophical tools, including consideration of counter-arguments, in the critical evaluation of a philosophical primary text.
3. Explain and apply deductive and inductive reasoning, critical thinking, and basic methods of formal logic.
4. Describe the historical development of philosophical ideas from ancient to modern philosophy, including terms employed in the discussion of these developments on fundamental questions that include topics of reality, knowledge, and value.

PROGRAM REQUIREMENTS

To receive an Associate of Arts for transfer degree in Philosophy, the student must complete the requirements detailed in the Transfer Model Curriculum Pathway. All courses must be completed with a C or better.

REQUIRED COURSES - SELECT TWO (6 UNITS)

PHILO 103	[NP]	Symbolic Logic	3
PHILO 101	[NP]	Philosophy	3 OR
PHILO 111	[NP]	Ethics: Theory and Application	3

LIST A - SELECT ONE (3 UNITS)

Any Course from Required Core not already used			
PHILO 120	[NP]	History of Philosophy: Ancient	3
PHILO 121	[NP]	History of Philosophy: Modern	3
PHILO 105	[NP]	Reasoning	3
PHILO 107	[NP]	Philosophy of Science	3
PHILO 123	[NP]	Twentieth Century Philosophy	3
PHILO 130	[NP]	Political Theory	3

LIST B - SELECT TWO (6 UNITS)

Any course from List A not already used			
HIST 104	[NP]	Western Civilization to 1650	3
HIST 105	[NP]	Western Civilization since 1650	3
PHILO 115	[NP]	Religion: Philosophical and Comparative Inquiry	3

LIST C - SELECT ONE (3 UNITS)

Any course from List A or B not already used.			
PHILO 113	[NP]	Philosophy and Art	3

PHILO 135	[NP]	Environmental Ethics	3
PHILO 140	[NP]	Philosophy and Film	3

TOTAL UNITS FOR THE MAJOR 18

TOTAL UNITS THAT MAY BE DOUBLE-COUNTED

GENERAL EDUCATION (CSU GE OR IGETC) UNITS..... 37-39

ELECTIVE (CSU TRANSFERABLE) UNITS

TOTAL DEGREE UNITS (MAXIMUM) 60

**Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.*

Political Science PROGRAM

Political Science is a practical liberal arts major. Students who pursue the Associate in Arts in Political Science for Transfer (AA-T in Political Science) degree will analyze politics and government at the local, state, national, and global levels. Students will also acquire substantive knowledge of American Politics, Political Theory, Comparative Politics, and International Relations. The study of Political Science provides students with the opportunity to explore how individuals can make a difference in their political communities. The Associate in Arts in Political Science for Transfer (AA-T in Political Science) degree is intended for students who plan to complete a bachelor's degree in Political Science at a California State University campus. Students completing this degree are guaranteed admission to the CSU System, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

AAT DEGREE: POLITICAL SCIENCE

THE FOLLOWING IS REQUIRED FOR THE ASSOCIATE IN ARTS IN POLITICAL SCIENCE FOR TRANSFER (AA-T IN POLITICAL SCIENCE) DEGREE:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- (2) Obtainment of a minimum grade point average of 2.0. All courses within the major must be completed with a C or better. A “P” (Pass) grade is not an acceptable grade for courses in the major. Note: Double counting courses in GE and the major is permissible. Guidance and Activities requirements are not required for this degree.

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Use critical and creative thinking to address major political problems.
2. Analyze key concepts and important theories in political science.
3. Effectively search for, interpret, and critique political science literature.
4. Formulate and communicate thoughtful opinions about governmental systems, political institutions, laws, and public policies.

PROGRAM REQUIREMENTS

To earn an Associate in Arts for Transfer Degree in this major, the student must complete the requirements detailed in the Transfer Curriculum Pathway which includes completion of the requirements below

REQUIRED CORE: (3 UNITS)

POLSC 101	[NP]	American Politics	3
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LIST A: SELECT THREE (9 UNITS)

POLSC 130	[NP]	Political Theory	3
POLSC 140	[NP]	Comparative Politics	3
POLSC 110	[NP]	International Relations	3

LIST B - SELECT TWO (6 UNITS)

Any course from List A not already used			
POLSC 102	[NP]	The Constitution and Rights of Americans	3
POLSC 120	[NP]	California Politics and Problems	3
POLSC 131	[NP]	American Political Thought	3
POLSC 180	[NP]	Human Rights	3
COMM 130	[NP]	Intercultural Communication	3
ECON 101	[NP]	Principles of Macroeconomics	3
ECON 102	[NP]	Principles of Microeconomics	3
GEOG 110	[NP]	World Regional Geography	3
SOCIO 150	[NP]	Ethnicity and Culture in America	3

TOTAL UNITS REQUIRED IN A.A.-T MAJOR 18

TOTAL UNITS THAT MAY BE DOUBLE COUNTED	6-9
UNITS REQUIRED FOR IGETC/CSU BREADTH	37-39
CSU TRANSFERABLE ELECTIVES (AS NEEDED)	9-14

TOTAL UNITS REQUIRED FOR A.A.-T DEGREE 60

* Note: Double counting courses in GE and the major is permissible. MJC Guidance and Activities requirements are not required for this degree.

Recreational Land Management PROGRAM

The Recreational Land Management program prepares students for a variety of career choices, such as park ranger, recreation facility manager, resource management, campground and landscape maintenance, conservationist, fishery worker, and more. The main focus of the program is on the management and development of land

for recreation, and ecological purposes. Program courses include: Outdoor/Forest Recreation, Native Tree & Shrub Identification, Wildlife Production, Wildland Fire Control, etc.

CERTIFICATE: RECREATIONAL LAND MANAGEMENT

PROGRAM LEARNING OUTCOMES

Upon satisfactory completion of this award, the student should be prepared to:

1. Practice safe work habits in an employment setting, including handling and storage of hazardous materials and operation of basic tools and equipment.
2. Apply forestry and land management skills for technical employment in the natural resource management.
3. Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.
4. Develop environmental stewardship as an operational philosophy for resource management, public education of natural resources, and wildlife management.

PROGRAM REQUIREMENTS

To earn a Certificate of Achievement, the student must complete the following coursework. Each course must be completed with a grade of C or better.

I. AGRICULTURE CAREER COURSES - COMPLETE 5 UNITS

AG 115 *	[1]	Introduction to Agricultural Education & Careers	1
AG 249 **	[4]	Agriculture Internship	2 OR
AG 349ABCD	[NP]	Work Experience Agriculture - Supervised Practice ..	1 - 4

II. AGRICULTURE SCIENCE BREADTH COURSES - COMPLETE 6 UNITS

AGEC 225	[NP]	Agriculture Computer Applications	3
AGM 200	[NP]	Introduction to Mechanical Technology	3
NR 200	[NP]	Soils	4
PLSC 200	[NP]	Introduction to Plant Science	3

III. MAJOR REQUIRED COURSES FOR CERTIFICATE - COMPLETE 10 UNITS

NR 215	[NP]	Wildlife Production	3
NR 222	[NP]	Native Tree and Shrub Identification	3
NR 230	[NP]	Outdoor/Forest Recreation	3
NR 379	[NP]	Wildland Fire Control	1

IV. ELECTIVE COURSES FOR CERTIFICATE - COMPLETE 3 UNITS

NR 220	[NP]	Introductory Forestry	3
AG 285	[NP]	Agricultural Communications	3
AGM 215	[NP]	Machinery Management	3
AGM 230	[NP]	Field Surveying	2
EHS 276	[NP]	Landscape Maintenance	3

TOTAL UNITS 24

*Required

**Internship/Work Experience must be Agriculture related

Note: For Section I: Agriculture Career Courses, students must take AG 115. Students must complete an additional 4 units in the section by taking AG 349D or a combination of AG 349A-C, or a combination of AG 249 and AG 349B.

PROGRAM LEARNING OUTCOMES FOR THE FOLLOWING AWARDS WERE MODIFIED:

Agricultural Science - AS

1. Identify and appraise the educational requirements for career opportunities in the agriculture industry.
2. Analyze and communicate effectively core issues in the various fields of agriculture.
3. Integrate leadership aptitudes into one-on-one and group settings.

Agriculture Business - AS

1. Organize and prepare reports, presentations, and other financial documents used in making farm management decisions.
2. Assess supply and demand as it relates to local and regional agriculture business industries.
3. Make logical decisions based on the analysis of agriculture business trends.

Agriculture: Sales, Service Technician – Certificate

1. Evaluate market trends and create a marketing plan for an agricultural product or commodity.
2. Organize and prepare reports, presentations, and financial documents pertaining to agriculture business.
3. Create a customer profile and employ a sales strategy based on that profile.

Animal Science – AS

1. Employ the scientific method to solve agriculture problems.
2. Demonstrate safe work habits.
3. Identify careers in the Animal Agriculture Industry and describe the skills needed for those careers.
4. Describe basic management techniques used by the Animal Science industry to produce wholesome, safe, environmentally responsible animal products.

Artificial Insemination Technician – Certificate

1. Give specific examples of careers in the Artificial Insemination industry.
2. Describe technologies used in the Artificial Insemination industry.

Crop Science – AS

1. Apply general plant science skills for technical employment in the plant science management industry (agronomy and oleoculture).
2. Apply the principles of ecology, soil science, and plant science to agronomy and oleoculture crop management problems.
3. Develop integrated pest management programs for specific crops.

Dairy Science – AS

1. Describe management techniques used by the Dairy industry.
2. Utilize a variety of technologies in the dairy industry.

Environmental Horticultural Science - AS

1. Identify and appraise the educational requirements for career opportunities in the horticulture industry.
2. Perform nursery practices necessary to be successful in the horticulture industry.
3. Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, and growth habits, for each.
4. Demonstrate the effective work habits and inter-personal communication skills required by employers in the horticulture industry.

Forestry - AS

1. Employ the scientific method to solve forestry problems.
2. Perform forestry practices necessary to be successful in the horticulture industry.
3. Apply forestry principles to sustainable resource management problems.
4. Demonstrate the effective, safe work habits and inter-personal communication skills required by employers in the forestry industry.

Fruit Science - AS

1. Apply general plant science skills for technical employment in the plant science management industry (pomology, viticulture and enology).
2. Apply the principles of ecology, soil science, and plant science to pomology and viticulture management problems.
3. Develop integrated pest management programs for specific crops.

Mechanized Agriculture – AS

1. *Fabrication Option:* Design and fabricate agriculture equipment effectively.
2. *Fabrication Option:* Select proper fabrication equipment for various construction and/or repair situations.
3. *Power Option:* Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. *Power Option:* Repair basic power equipment effectively.

Mechanized Agriculture Technician – Certificate

1. *Fabrication Option:* Design and fabricate agriculture equipment effectively.
2. *Fabrication Option:* Select proper fabrication equipment for various construction and/or repair situations.
3. *Power Option:* Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. *Power Option:* Repair basic power equipment effectively.

Poultry Science – AS

1. Employ the scientific method to solve agriculture problems.
2. Describe basic techniques used by the poultry Science industry to produce wholesome, safe, environmentally responsible animal products.

Recreational Land Management - AS

1. Employ the scientific method to solve recreational land management problems.
2. Perform recreational land management practices necessary to be successful in the industry.
3. Apply recreational land management principles to sustainable resource management problems.
4. Demonstrate the effective, safe work habits and inter-personal communication skills required by employers in the recreational land management industry.

Soil Science – AS

1. Employ the scientific method to solve problems in the laboratory and in the natural environment.
2. Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.
3. Employ environmental stewardship as an operational philosophy for resource management, public education of natural resources, and wildlife management.