

# NORCO COLLEGE

## CURRICULUM COMMITTEE MINUTES

October 23, 2018 - 2:00 pm  
ST 107

Brian Johnson chaired the meeting.

### Members Present:

Brian Johnson.....Math  
Nicole C. Brown.....Office of Academic Affairs  
Dr. Samuel Lee..... Vice President of Academic Affairs  
Dr. Jason Parks.....Dean of Instruction  
Dr. Marshal Fulbright..... Dean of Instruction  
Mitzi Sloniger.....Communications  
Dr. Teresa Friedrich Finnern .....Sciences and Kinesiology  
Starlene Justice..... Sciences and Kinesiology  
Rex Beck..... Business, Engineering & Information Technologies  
Jeffrey Mulari.....Math  
Andy Robles .....Math  
Michael Bobo ..... Arts, Humanities and World Languages  
Quinton Bemiller..... Arts, Humanities & World Languages  
Nicole Capps ..... Communications  
Vivian Harris.....Library  
Nicholas Franco..... Social and Behavioral Sciences/ Articulation Officer  
Dr. Lisa Martin ..... Social and Behavioral Sciences/Counseling  
Francisco Fernandez, Jr.....ASNC

### Members Absent:

Glen Graham ..... Business, Engineering & Information Technologies  
Dr. Kevin Fleming..... Dean of Instruction, Career & Technical Education

### Guest:

Pam Kollar..... Evaluations  
Bob Prior ..... Math

- A. Agenda Approval: MSC: MSC: V. Harris/M. Sloniger. \*Approved.
- B. Minutes Approval MSC: V. Harris/T. Friedrich Finnern . 1 abstained. Discussion among committee regarding the WKX disciplines listed. Brian Johnson said Dr. Milols will be creating a committee in November to rework the work experience guidelines. Brian Johnson will contact Glen Graham to see if he will be an active member of this committee.\*Approved.
- C. New Discipline:
  1. APP- Apprenticeship – N BEIT will be developing new certificates in the discipline of Apprenticeship. This the first step. MSC: V. Harris/T. Friedrich Finnern \* APPROVED
- D. New Courses:
  1. ADJ 19 Introduction to Policing \* MNR To create and maintain a policing class to remain both academically competitive and rigorous with similar administration of justice and criminal justice programs at the undergraduate level, as well as to address the dearth of policing courses in the existing program in comparison to classes about law and corrections. MSC: T. Friedrich Finnern/ N. Franco \* **TABLED**. Methods of Instruction and Evaluation are weak and needs to be reworked. Don't need GE links to the SLO's at this time.

2. ADJ 24 Interviewing & Interrogation \* MNR To create a course on professional communication techniques specific to the criminal justice profession (including information gathering, interviewing, professional communication, and interrogation) to allow the program to remain academically competitive and marketable. MSC: T. Friedrich Finnern/ S. Justice \*1 voted no to table. **TABLED** Methods of Instruction and Evaluation are weak. Sample Assignments are generic. Don't need GE links to the SLO's at this time.
3. BIO 21 California Naturalist \*N California Naturalist certification and Project Learning Tree are recognized throughout California as a preparation for citizen scientists and educators to engage students and the public in science and nature. MSC: V. Harris/T. Friedrich Finnern \* APPROVED

**E. New Stand Alone Courses:** For number 1-4 MSC: S. Justice/ T. Friedrich Finnern

\*APPROVED. Remove the GE Links to the SLO's. These courses prepare the students for success in the next level math course using Just in Time Remediation.

1. MAT 105 Corequisite support for MAT-5 \* MNR Support course for MAT-5 to meet AB705 requirement.
2. MAT 112 Corequisite support for MAT-12 \*MNR Support course for MAT-12 to meet AB705 requirement.
3. MAT 125 Corequisite support for MAT-25 \*MNR Support course for MAT-25 to meet AB705 requirement.
4. MAT 136 Corequisite support for MAT-36 \*MNR Support course for MAT-36 to meet AB705 requirement.

**F. Course Inclusions:**

1. CHI 2 – Chinese 2 \*NOR MSC: Q. Bemiller/V. Harris \* APPROVED.
2. CHI 11 – Culture and Civilization \*NOR MSC: Q. Bemiller/V. Harris \* APPROVED

**G. Course exclusions:** None.

**H. Course deletions:**

1. ADJ 16 Interviewing & Counseling \*NR Course was voted on by department and discipline to be deleted, as it has not been taught or offered for a long time on the campuses, and a review of the COR of this course suggests redundancy with the stronger courses offered in corrections; course is being proposed for deletion and removal from the catalog to improve and streamline the overall program and remove ineffective courses. \*MSC: A. Robles/ T. Friedrich Finnern \* APPROVED.

**I. Distance Education:** None

**J. Major Course Modifications:**

1. ART 6H Honors Art Appreciation - MNR Tabled at 9/25 & 10/9 mtg. Issues not resolved still. Already approved at RCC and MVC \*MSC: T. Friedrich Finnern/ V. Harris \* APPROVED
2. ADJ 2 Principles and Procedures of the Justice System \*MNR COR update. CID compliance and adding course objectives. \*MSC: A. Robles/V. Harris \* APPROVED
3. ADJ 13 Criminal Investigation- MNR Tabled at 9/25 & 10/9 mtg. Issues not resolved still. \*MSC: A. Robles/V. Harris \* APPROVED

4. ADJ 20 Introduction to Corrections \* MNR Modification necessary to comply with Integrated Course Outline requirements and to incorporate into ADJ SB1440 degree. Moreno Valley included this course in their inventory, April 19, 2016. \*MSC: N. Capps/ R. Beck. \*APPROVED. Need to update the CO to list Norco Transfer status.
5. ADJ 3 Concepts of Criminal Law \*MNR Add Objectives and update per program review. \*MSC: A. Robles/ M. Sloniger \* APPROVED. Need to look at GE Links RCCD pattern.
6. ADJ 8 Juvenile Law and Procedures \* MNR COR needs to be updated 5/2018 Objectives listed 5/2018 Moreno Valley voted to include this course in their inventory. Approved by the Tech review Board on April 19, 2016. \*MSC: A. Robles/ T. Friedrich Finnern. \* APPROVED.
7. PSY 2 Biological Psychology \*MNR Update SLO's. \*MSC: T. Friedrich Finnern/ S. Justice. \*APPROVED.
8. PSY 9 Developmental Psychology \*MNR Update of COR for Comprehensive Program Review. MSC: A. Robles/ N. Capps \*APPROVED.
9. SOC 15 Introduction to Women's Studies \*MNR To bring the course content into compliance with C-ID descriptor. MSC: T. Friedrich Finnern/ M. Sloniger \*APPROVED
10. ACC 67 U.S. and California Income Tax Preparation \*N Upon the completion of this course students who pass with an overall score of 70% or higher will not only receive 4 units of college credit but they will also be certified by the state of California to prepare taxes under the guidelines of the regulating body of CTEC (California Tax Education Council). \*MSC: J. Mulari/ R. Beck. Don't need GE Links or Objectives.\* APPROVED.

**K. New State Approved Certificates/Degrees:**

1. BIO ADT ES Associate in Science in Environmental Science for Transfer \*NORCO MSC: T. Friedrich Finnern/ V. Harris \* APPROVED
2. BIO CERT California Naturalist Certificate \* NORCO MSC: V. Harris/ S. Justice \* APPROVED
3. Cert. in Coding Prep. **TABLED in 10/9 & 10/23/18 meeting**. No changes were made.

**L. State/Locally Approved Certificate/Degree Modifications: None**

**M. State Certificate/Degree Deletions: None.**

**N. AOE/GE Inclusions:**

1. REA-3 Reading Competency - MNR Add to GE section2 self-development. TABLED. The modifications hasn't gone through Tech Review. Statement on Competency needs to add REA-3 and needs to be added to the catalog. **\*TABLED at 10/23 mtg.**

**O. Information Items:**

1. New Courses:
  - i. ACC 119 VITA Certification – Volunteer Income Tax Assistance Training & Certification \*R The course will serve as a non-credit course with real-world application to assist the poor in our community. Students will recognize the benefit of knowledge and skills gained in the classroom and its usage as a step toward a future career opportunity.
  - ii. EMS 41 Emergency Medical Responder \*M To help prepare students to meet the rigors of an entry-level provider for fire, EMS and safety positions in private or public setting that deal with medical and traumatic injuries.
  - iii. NRN 14 Health Promotion and Wellness Across the Lifespan \*R Course was created to satisfy the required 3 unit lower division Lifelong Learning (Area E) for CSU statewide transfer model curriculum. Course will replace NRN-13.

2. New Stand Alone Courses: None.
3. Course Inclusions:
  - i. ART INCL 20            MOV Inclusion ART-20
  - ii. ART INCL 21           MOV Inclusion ART-21
  - iii. ART INCL 46           MOV Inclusion ART-46
  - iv. MAT INCL 5 MOV Inclusion MAT-5 There is a demand for this course at MVC. Each year, MVC students travel to RCC to take this course.
4. Course Exclusions:
  - i. REA EXCLM 81        MOV Exclusion REA-81            No longer taught (AB 705)
  - ii. REA EXCLM 82       MOV Exclusion REA-82            No longer taught (AB 705)
5. Course Deletions: None
6. Distance Education: None
7. Minor Course Modifications: None.
8. Major Course Modifications:
  - i. ADJ B1A    \*M    Intro to Wellness and Physical Conditioning in Prep for Law Enforcement and Correctional Academies Update class to include a section on ethics, use of force, increase units, and include objectives.
  - ii. ADJ D4B    \*M        Dispatcher Role in Critical Incidents Advanced            Update the course with new state standards and objectives.
  - iii. ADJ D7A    \*M    Dispatcher Domestic Violence and Sexual Assault            Update state requirements and add objectives.
  - iv. ADJ R1B    \*M    Level II Modular Academy Training            Update to add objectives, new state requirements and increase hours/units.
  - v. ADJ R1C    \*M    Regular Basic Course, Modular Format, Module I Training    To bring the lecture and lab hours in line with the regular basic academy. To add objectives and new state requirements.
  - vi. NRN 11     \*R    Foundations of Nursing Practice Across the Lifespan    Updating curriculum to align with statewide approved curriculum and to align with CSU concurrent enrollment for BSN. Decreased hours and units to align with CSU 120 unit maximum units for Bachelor's degree.
  - vii. NRN 11A    \*R    Nursing Learning Laboratory            Changing SLOs to align with newly proposed curriculum.
  - viii. NRN 12     \*R    Acute and Chronic Medical-Surgical Nursing Across the Lifespan and Maternity Nursing            Updating curriculum to align with statewide approved curriculum and to align with CSU concurrent enrollment for BSN.
  - ix. NRN 12A    \*R    Nursing Learning Laboratory            Changing SLOs to align with newly proposed curriculum.
  - x. NRN 21      \*R    Acute Adult Medical-Surgical and Mental Health Nursing Updating curriculum to align with statewide approved curriculum and to align with CSU concurrent enrollment for BSN. Decreased hours and units to align with CSU 120 unit maximum units for Bachelor's degree.
  - xi. NRN 21A    \*R    Nursing Learning Laboratory            Changing SLOs to align with newly proposed curriculum.
  - xii. NRN 22     \*R    Advanced Medical-Surgical Nursing Across the Lifespan and Acute Patients Updating curriculum to align with statewide approved curriculum and to align with CSU concurrent enrollment for BSN. Decreased hours and units to align with CSU 120 unit maximum units for Bachelor's degree.
  - xiii. NRN 22A    \*R    Nursing Learning Laboratory            Changing SLOs to align with newly proposed curriculum.

9. New State/Locally Approved Certificates/Degrees:
- i. HMS CERT BT Behavioral Therapist Certificate \*M
  - ii. HMS CERT CSW Careers in Social Work Certificate \*M
  - iii. HMS CERT CW Child Welfare Certificate \*M
  - iv. HMS CERT DAS Drug and Alcohol Studies Certificate \*M
  - v. HMS CERT FS Family Studies Certificate \*M
  - vi. HMS CERT JSS Justice System Studies Certificate \*M
  - vii. HMS CERT MC Multicultural Counseling Certificate \*M
  - viii. HMS CERT MSW Military Social Work Certificate \*M
  - ix. HMS CERT SWAS Social Work Administration Studies Certificate \*M
  - x. CIS CERT CMS Noncredit Certificate in Computer Maintenance and Security \*M
  - xi. CIS CERT IOT Noncredit Certificate in Internet of Things (IoT) \*M
  - xii. CIS CERT OS Noncredit Certificate in Operating Systems and Internet Literacy \*M

10. State/Locally Approved Certificate/Degree Modifications:

- i. HMS MAS663 Human Services Associate of Science Degree Update of Human Services Associate of Science Degree \*M
- ii. MDA MAS718 Administrative/Clinical Medical Assisting \*M
- iii. MDA MCE718 Certificate in Medical Assisting \*M

11. State Certificate/Degree Deletions: None

12. New disciplines:

Riverside City AML CNG \*RCC AML to ASL

P. Discussion items: None

Q. Information Items: Nicole reminded those that requested an 18/19 course catalog to please come by her desk to pick it up.

## Next Meeting: November 13, 2018

### Statement of Purpose

The curriculum committee, a sub-committee of the academic senate, has two primary purposes: to review and approve new curriculum including new courses, course modifications, new programs and program modifications, and to review and approve the curriculum approval process. The college curriculum committee is the sole approving body for Norco College only curriculum. For district shared curriculum it has one vote in the district curriculum committee. The curriculum committee is also responsible for keeping abreast with state mandated curriculum changes and reporting those changes to faculty. Committee members report on curriculum at their department meetings and solicit suggestions and recommendations when needed.

DECISIONS			
Course	COURSE TITLE	Action?	NORCO Curriculum Committee (DATE)
ART-1	History of Western Art: Prehistoric, Ancient, and Medieval	Modification	9/11/2018
ART-6	Art Appreciation	TABLED	9/11/2018

ART-6H	Honors Art Appreciation	TABLED	9/11/2018
CAT-51	Intermediate Keyboard/Document Formatting	TABLED	9/11/2018
CAT-90	Microsoft Outlook	TABLED	9/11/2018
GEG-1L	Physical Geography Laboratory	Modification	9/11/2018
MAN-35	Computer-Aided Manufacturing–Mastercam	TABLED	9/11/2018
MAT-10	Precalculus	Modification	9/11/2018
MAT-1A	Calculus I	Modification	9/11/2018
MAT-1B	Calculus II	TABLED	9/11/2018
MAT-35	Intermediate Algebra	Modification	9/11/2018
MUS-52	Recital Performance	Modification	9/11/2018
MUS-67	Community Chamber Ensemble	Modification	9/11/2018
REA-81	Foundations for College Reading	Exclusions	9/11/2018
REA-82	College Reading and Strategies	Exclusions	9/11/2018
ADJ-13	Criminal Investigation	TABLED	9/25/2018
ADJ-14	Advanced Criminal Investigation	Modification	9/25/2018
ADJ-9	Law In American Society	Modification	9/25/2018
ART-6	Art Appreciation	Modification	9/25/2018
ART-6H	Honors Art Appreciation	TABLED	9/25/2018
HUM-20C	Arts & Ideas: Special Studies	Exclusions	9/25/2018
MAN-35	Computer-Aided Manufacturing-Mastercam	Modification	9/25/2018
MAT-1B	Calculus II	Modification	9/25/2018
MUS-3	Fundamentals of Music	Modification	9/25/2018
MUS-4	Music Theory I	Modification	9/25/2018
MUS-5	Music Theory II	Modification	9/25/2018
MUS-6	Music Theory III	Modification	9/25/2018
SCA-1	Introduction to Automated Warehousing-x-listed with SCT-1	New course	9/25/2018
SCT-1	Introduction to Automated Warehousing-x-listed with SCA-1	Modification	9/25/2018
WKX 200	Work Experience	Modification	9/25/2018
WKX ACC 200	Accounting Work Experience	Modification	9/25/2018
WKX ADJ 200	Administration of Justice Work experience	Modification	9/25/2018
WKX ANT 200	Anthropology	Modification	9/25/2018
WKX ARE 200	Architecture Work Experience	Modification	9/25/2018
WKX ART 200	Art Work Experience	Modification	9/25/2018
WKX BIO 200	Biology	Modification	9/25/2018
WKX BUS 200	Business Administration Work Experience	Modification	9/25/2018
WKX CAT 200	Computer Applications and Office Technology Work Experience	Modification	9/25/2018
WKX CHE 200	Chemistry	Modification	9/25/2018
WKX CIS 200	Computer Information Services Work Experience	Modification	9/25/2018
WKX COM 200	Communication Studies	Modification	9/25/2018
WKX CON 200	Construction Technology Work Experience	Modification	9/25/2018
WKX CSC 200	Computer Science	Modification	9/25/2018
WKX DAN 200	Dance	Modification	9/25/2018
WKX DFT 200	Drafting	Modification	9/25/2018
WKX EAR 200	Early Childhood Work Experience	Modification	9/25/2018

WKX ECO 200	Economics	Modification	9/25/2018
WKX ELC 200	Electricity	Modification	9/25/2018
WKX ELE 200	Electronics Work Experience	Modification	9/25/2018
WKX ENE 200	Engineering Work Experience	Modification	9/25/2018
WKX ENG 200	English	Modification	9/25/2018
WKX ESL 200	English as a Second Language	Modification	9/25/2018
WKX FRE 200	French	Modification	9/25/2018
WKX GAM 200	Multimedia-Simulation & Game Development	Modification	9/25/2018
WKX GEG 200	Geography	Modification	9/25/2018
WKX GIS 200	Geographic Information Systems	Modification	9/25/2018
WKX GUI 200	Guidance	Modification	9/25/2018
WKX HES 200	Health Science	Modification	9/25/2018
WKX HIS 200	History	Modification	9/25/2018
WKX HUM 200	Humanities	Modification	9/25/2018
WKX ILA 200	Interdisciplinary Studies	Modification	9/25/2018
WKX JOU 200	Journalism Work Experience	Modification	9/25/2018
WKX KIN 200	Kinesiology Work Experience	Modification	9/25/2018
WKX LIB 200	Library	Modification	9/25/2018
WKX MAG 200	Management Work Experience	Modification	9/25/2018
WKX MAN 200	Manufacturing Technology Work Experience	Modification	9/25/2018
WKX MAT 200	Math	Modification	9/25/2018
WKX MIS 200	Music Industries Studies	Modification	9/25/2018
WKX MKT 200	Marketing Work Experience	Modification	9/25/2018
WKX MUS 200	Music Work Experience	Modification	9/25/2018
WKX PHI 200	Philosophy	Modification	9/25/2018
WKX PHO 200	Photography	Modification	9/25/2018
WKX PHS 200	Physical Science	Modification	9/25/2018
WKX PHY 200	Physics	Modification	9/25/2018
WKX POL 200	Political Science	Modification	9/25/2018
WKX PSY 200	Psychology	Modification	9/25/2018
WKX REA 200	Reading	Modification	9/25/2018
WKX RLE 200	Real Estate Work Experience	Modification	9/25/2018
WKX SCT 200	Supply Chain Technology	Modification	9/25/2018
WKX SOC 200	Sociology	Modification	9/25/2018
WKX SPA 200	Spanish	Modification	9/25/2018
WKX THE 200	Theatre Arts Work Experience	Modification	9/25/2018
WKX WEL 200	Welding Work Experience	Modification	9/25/2018
WKX WL-LAB 200	Writing Lab	Modification	9/25/2018
WKX XXX 200	Engineering Technology	Modification	9/25/2018
WKX XXX 200	Entrepreneurship	Modification	9/25/2018
ACC-1A	Principles of Accounting I - MNR	Modification	10/9/2018
ADJ-13	Criminal Investigation- MNR	Modification	10/9/2018
ART-6H	Honora Art Appreciation - MNR	Modification	10/9/2018
CHI - 1	Mandarin Chinese 1	Inclusion	10/9/2018
MAT-2	Differential Equations MNR	Modification	10/9/2018
MUS-85	Summer Chamber Ensembles	Inclusion	10/9/2018
PHI-15	Biomedical Ethics	Exclusions	10/9/2018

REA-2	Strategic Reading NR	Modification	10/9/2018
REA-3	Reading Competency	AOE/GE Inclusions	10/9/2018
REA-887	Reading Clinic	Inclusion	10/9/2018
SPA-13	Spanish for Health Care Professionals	Inclusion	10/9/2018
State Approved Degree/Certificates	Cert. in Coding Prep	TABLED	10/9/2018
State Approved Degree/Certificates	MUSIC ADT	APPROVED	10/9/2018
State Approved Degree/Certificates	AA MUSIC	APPROVED	10/9/2018
State/Locally Approved Certificate/Degree Modifications	Logistics Management Concentration *Concentration Note Revised: 08/28/2018	APPROVED	10/9/2018
State/Locally Approved Certificate/Degree Modifications	Associate in Arts in Psychology for Transfer - PLO Changes	APPROVED	10/9/2018
NEW Discipline	APP *Apprenticeship	APPROVED	10/23/2018
ADJ-19	Introduction to Policing	TABLED * New Course	10/23/2018
ADJ-24	Interviewing & Interrogation	TABLED * New Course	10/23/2018
BIO-21	California Naturalist	New Courses * Approved	10/23/2018
MAT-105	Corequisite support for MAT-5	New Stand Alone Courses	10/23/2018
MAT-112	Corequisite support for MAT-12	New Stand Alone Courses	10/23/2018
MAT-125	Corequisite support for MAT-25	New Stand Alone Courses	10/23/2018
MAT-136	Corequisite support for MAT-36	New Stand Alone Courses	10/23/2018
CHI-2	Chinese 2	Course Inclusions	10/23/2018
CHI-11	Culture and Civilization	Course Inclusions	10/23/2018
ADJ-16	Interviewing & Counseling	Course deletions	10/23/2018
ART-6H	Honors Art Appreciation	Major Course Modifications	10/23/2018
ADJ-2	Principles and Procedures of the Justice System	Major Course Modifications	10/23/2018
ADJ-13	Criminal Investigation	Major Course Modifications	10/23/2018
ADJ-20	Introduction to Corrections	Major Course Modifications	10/23/2018
ADJ-3	Concepts of Criminal Law	Major Course Modifications	10/23/2018



ADJ-8	Juvenile Law and Procedures	Major Course Modifications	10/23/2018
PSY-2	Biological Psychology	Major Course Modifications	10/23/2018
PSY-9	Developmental Psychology	Major Course Modifications	10/23/2018
SOC-15	Introduction to Women's Studies	Major Course Modifications	10/23/2018
ACC-67	U.S. and California Income Tax Preparation	Major Course Modifications	10/23/2018
BIO ADT	ES Associate in Science in Environmental Science for Transfer	New State Approved Certificates/Degrees	10/23/2018
BIO CERT	California Naturalist Certificate	New State Approved Certificates/Degrees	10/23/2018
CERT IN CODING PREPARATION	CERT IN CODING PREPARATION	New State Approved Certificates/Degrees	10/23/2018
REA-3	Reading Competency	*TABLED AOE/GE Inclusions	10/23/2018

# RIVERSIDE COMMUNITY COLLEGE DISTRICT PROGRAM OUTLINE of RECORD

College: R\_\_\_ M\_\_\_ N X

TOPs Code: 0408.00

## California Naturalist Certificate

California Naturalist Certificate

### PROGRAM PREREQUISITE:

None.

### SHORT DESCRIPTION of PROGRAM

The California Naturalist Certificate is an introduction to California's unique ecology and stewardship of California's natural communities with certification from the UC ANR California Naturalist program and training in Project Learning Tree. The UC ANR California Naturalist program uses a science curriculum, hands-on learning, problem-solving, citizen science, and community service to encourage engagement with nature and conservation of local resources.

### PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students should be able to:

- Integrate knowledge about the interconnectedness of abiotic, biotic and cultural factors and their influence on the natural history of California.
- Develop and implement a naturalist project, which may include nature interpretation for public presentation, collaboration with community organizations, collaborative conservation, and/or citizen science.

### Required Courses (3 Units)

BIO-21

California Naturalist

### Units

3

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**Total Units: 3**

# RIVERSIDE COMMUNITY COLLEGE DISTRICT PROGRAM OUTLINE of RECORD

College: R\_\_ M\_\_ N\_X\_\_

TOPs Code: 0301.00

## Associate in Science in Environmental Science for Transfer (AS-T Environmental Science)

Associate in Science in Environmental Science for Transfer

### PROGRAM PREREQUISITE:

None.

### SHORT DESCRIPTION of PROGRAM

The Associate in Science in Environmental Science for Transfer Degree (AS-T in Environmental Science) introduces the concepts and principles upon which environmental knowledge is based including the biological, chemical, and physical concepts underlying scientific theory and application to environmental issues. Students will develop skills for critical/analytical thinking, perceptive reading/observation and interpretation to apply to environmental concerns affecting our everyday lives. The AS-T in Environmental Science provides students with a core curriculum to develop key skills for applying biological, physical, and chemical principles to the study of the environment and the developing solutions to environmental problems.

### PROGRAM LEARNING OUTCOMES

Upon successful completion of this program, students should be able to:

- Examine the impact of humankind on the environment from scientific, sociological, political, and economic viewpoints both locally and globally.
- Apply concepts and implement skills learned in the sciences, mathematics, and humanities to real-world environmental issues.
- Demonstrate an ability to examine scientific evidence demonstrating how human activities affect many ecosystems and recommend alternatives to present practices.

### Required Courses (40-41 Units)

		<u>Units</u>
BIO-60* (Formerly BIO-11)	Introduction to Molecular and Cellular Biology	5
CHE-1A*	General Chemistry I	5
BIO-61*(Formerly BIO-12)	Introduction to Organismal and Population Biology	5
OR		
CHE-1B*	General Chemistry II	5
<u>List A (14-15 Units)</u>		
BIO-19* (Formerly BIO-36)	Environmental Science	3
GEG-1*/1H*	Physical Geography/Honors	3
AND		
GEG-1L*	Physical Geography Laboratory	1
MAT-12*/12H*	Statistics/Honors	4
OR		
PSY/SOC-48*	Statistics for the Behavioral Sciences	3
MAT-1A*	Calculus I	4
<u>List B (11 Units)</u>		
ECO-8*/8H*	Principles of Microeconomics/Honors	3
PHY-2A*+2B*	General Physics I and II	8
OR		
PHY-4A*+4B*	Mechanics AND Electricity & Magnetism	8

\*Courses may also be used to fulfill general education requirements for the CSUGE or IGETC pattern, please confer with a counselor.

#### Associate in Science for Transfer Degree

The Associate in Science in Environmental Science for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) for STEM or California State University General Education (CSUGE) for STEM requirements and with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

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**Total Units: 40-41**