CALL TO ORDER
3:04 pm

MEMBERS PRESENT
Mike Taguchi (Chair), Dr. Maru Grant, Gary Kauf, Robin Kurotori, Shasawka Nudurapati (Student), Sheida Parvasi, Isabel Reichert, Sima Sarvari, Dr. Luba Voloshko

MEMBERS ABSENT
Jesse MacEwan

NON-VOTING MEMBERS PRESENT
Lesley Buehler, Mark Lieu, Kimberly Robbie

OTHERS PRESENT
Samir Abboud, Narinder Bansal, Sandra Chacko, Ron Sha

MINUTES TAKEN BY
Jacqlyn Vetter, Curriculum and Schedule Specialist (25%)

AGENDA MODIFICATIONS (Information)
The following items were changed:

- A request was made to discuss program revisions before course deactivations. Deactivations are usually discussed first, but with the number of programs having courses removed so they can be deactivated it doesn’t make sense to discuss course deactivations if the programs are not yet approved. The Committee will discuss degrees and certificates before courses.
- The following courses were pulled for discussion:
  - TD-121A
  - TD-121B
  - TD-121C

APPROVAL OF MINUTES (Consent/Information)
November 4, 2019 minutes
Minutes approved under consent agenda.

CHAIR’S REPORT

- A training meeting for Curriculum Committee members has been scheduled for January 22, 2020 from 9:00am-12:00pm. During this meeting, policy and procedure discussions involving curriculum will take place.
- Course currency/deactivation policy and procedure will be discussed during the Curriculum Committee Training on January 22, 2020, during Learning College Week.
- The Chancellor’s Office is conducting a curriculum review. It is a widespread review of all courses and programs offered by California community colleges. There is nothing for Committee members to do but know the review is coming.

ARTICULATION UPDATES
None

SELECTED TOPICS (Consent/Action)
None
MINOR REVISIONS (Consent/Information)

INT-106 Discourse Analysis: ASL – Tom Holcomb
Change field trips to May be Required. Change catalog description: This course is an overview of ASL discourse. Topics include discourse structure, language variation, genre, register, prosody, cohesion, turn-taking and back channeling, and gendered communication. Transcription conventions are reviewed for noting language samples. An external drive (USB) is required for the course to document students’ ASL work. Change class schedule description: This course provides an overview of ASL discourse including language variation, register, prosody, and cohesion. An external drive (USB) is required for the course to document students’ ASL work. Revise counselor information; course assignments; textbooks.

Minor revisions approved under consent agenda.

Question was raised regarding why an external drive is required for the course and why this language needs to be in the catalog description. Students have the right to know that there is a required supply before registering for classes. Faculty need to add any supplies to the catalog and class schedule descriptions the next time they revise their courses.

DEACTIVATIONS: (Consent/Action)

These courses have never been taught:
- CNET-124A Virtual Desktop Administration – Citrix – Ron Sha
- CNET-124B Virtual Application Administration – Citrix – Ron Sha
- CNET-154 Computer Network Fundamentals (Network+) – Ron Sha
- CNET-168B Administering Microsoft SQL Server – Ron Sha
- CNET-168C Implementing a Data Warehouse with Microsoft SQL Server – Ron Sha

These courses have not been taught in several years:
- CNET-141 Linux System Administration II (LPI-2) – Ron Sha
- CNET-151 Systems and Network Administration – Ron Sha
- CNET-158 Wireless Networks – Ron Sha
- CNET-167 Microsoft Exchange Server – Ron Sha
- CNET-168A Querying Microsoft SQL Server – Ron Sha
- CNET-180 IP Telephony and VoIP Implementations – Ron Sha
- CNET-182 Advanced Routing (CCNP ROUTE) – Ron Sha
- CNET-184 Advanced Switching (CCNP SWITCH) – Ron Sha
- CNET-186 Troubleshooting IP Networks (CCNP TSHOOT) – Ron Sha
- CS-145 PHP Programming with MySQL – David Topham
- CS-149/ PERL Programming – Ron Sha
- CNET-149
- CS-157 TCP/IP and Internetworking – David Topham
- CNET-157

Motion to approve course deactivations made by Sheida Parvasi, seconded by Luba Voloshko. Motion carried.

SUBCOMMITTEE APPROVALS/REPORTS

Distance Education Subcommittee (Action)

DE Update – Robin Kurotori, Distance Education Subcommittee Chair
- OEI – During the last DE meeting, concerns were discussed about intellectual property and what the OEI is doing when courses are placed into the Consortium. The OEI Consortium is here to help students finish their education faster. The repository will tell students if a course is available when their home college does not offer it when needed. This system is just a repository. Students still gain access to the courses in Canvas through Ohlone. Courses get badged, meaning that the course is meeting a high quality set in place by OEI. OEI is not to be confused
with CalBright, which is the new online California community college. Intellectually property has come up with the Foothill/DeAnza District, which is requiring faculty to sign a contract giving up their intellectual property. Ohlone is NOT doing this.

- A question was asked about how to get someone to evaluate the material for the open resources that have been created for students. OER is different than OEI. It’s your course—your expertise; you evaluate it on your own. OER-approved material goes through an extensive review process; talk to Robin Kurotori if you have more questions about the OER approval process.
- An inquiry was made if intellectual property of our courses can be taken away in the future. Anything is possible, but this is why we need to have people on top of these issues and the UFO is keeping abreast of it.
- How much additional FTES does Ohlone get through the repository? Answer: Ohlone has not done a good job with getting courses into the repository. It was believed that five spots are made allocated for badged courses that go into the repository.

- There was a robust conversation about online cheating that was cut short due to time. Cheating is happening in increasing and alarming amounts. 31% of students willfully cheated in Jeff Watanabe’s class. Sarah Cooper introduced an online proctoring service in her online class and half her class dropped. Ohlone needs to have conversations about cheating and identify strategies to combat it. This is a huge concern for online classes but also face-to-face classes. It’s time for faculty to get together and share ideas.

- Flex Week – Tech Day is being offered during Learning College Week.

**Approved for Hybrid and Fully Online:**

- ASL-145 Deaf History, Audism, and Social Justice
- ENVS-108 Introduction to the Environment
- HLTH-101 Contemporary Health Issues
- MM-105 Introduction to Web Design

**Approved for Hybrid Only:**

- MATH-101A Calculus with Analytic Geometry
- MATH-101B Calculus with Analytic Geometry
- MATH-103 Introduction to Linear Algebra
- MATH-152 Algebra II
- MM-122 Digital Sculpting

**Motion to approve all hybrid and fully online courses, and hybrid only courses made by Gary Kauf, seconded by Sheida Parvasi. Motion carried.**

**General Education Subcommittee (Action)**

**GE Update – Wayne Yuen, General Education Subcommittee Chair**

- Area IVB and Area VI

- Wayne was unable to attend the meeting in person, so Mike shared a document from Wayne with the Committee. From Wayne:
  - At the end of Spring 2019, the GE Committee had several members leave the committee and three new committee members were added to the committee. Because the committee membership was changing drastically, the committee decided at the end of last semester to hold on making decisions about Area VI, Intercultural/International Studies. At the beginning of this semester, with the new committee membership, we have decided to abandon going forward with changes to Area VI that would have split it into two separate areas. This decision was made for a variety of reasons, but chief among them was the worry that our plans would inadvertently drive students to specific courses that would satisfy two areas of GE, rather than encourage students to take a wide variety of courses, so that they could have a well-rounded educational experience here at Ohlone.
The committee also has amended the changes that we had made in Area IVC, which changed the requirements from simply completing the area to adding a unit requirement to the area. This was an unintentional change, which wasn’t properly vetted by the committee.

Our current project is now turning our attention to Area IVB, Analytical thinking and Oral Communication. The committee has, for a while, been unhappy with the definition of “Critical Thinking.” We believe that the current definition is too broad. The current definition is:
1) Think logically and critically to solve problems, draw conclusions, and evaluate evidence.
2) Communicate an idea clearly, either verbally or in written form.

The first part of the definition is far too broad. It would include virtually all the science courses, possibly all engineering courses, a substantive portion of English and humanities courses, all the social science courses, and a case could be made for many art courses as well. The committee would like to make this part of the definition narrower, to cover more traditional critical thinking courses that focuses on argumentation, fallacies, rhetoric, logic, etc.

The committee is currently examining this definition, and engaging in discussion with other academic departments to examine how we can better define this area.

- Direct all questions to Wayne.
- The work being done on revising the definition of Critical Thinking is not very well known. The Committee asked how this information will be communicated to the larger Ohlone community. In the past, the GE Committee went to various meetings (Faculty Senate, Curriculum Committee, etc.) to present the proposed curriculum change, and also communicated the curriculum change to various college groups.

Reaffirmations:
- Area I, Natural Sciences: ENVS-108
- Area II, Social and Behavioral Sciences: ENVS-108
- Area IIIB, Humanities and Participatory Arts: MM-105
- Area VA, Physical Education: PE-300A2, PE-300C2
- Area VB, Wellness: HLTH-101

New Approvals:
- Area VA, Physical Education: TD-148B2

Deny Reaffirmations: None

Deny New Approval: None

Remove from Plan A: None

Motion to approve all GE courses made by Robin Kurotori, seconded by Luba Voloshko. Motion carried.

Student Learning Outcomes and Assessment

None

COURSE REACTIVATION (Consent/Action)

None
MAJOR COURSE REVISIONS (Consent/Action)

AJ-228A7  Basic Police Academy Modular Level II – Libby Flores
Change units from 5.0 to 7.0. Change lecture hours from 36.00 to 63.00. Change lab hours from 180.00 to 216.00. Change course number from AJ-228A5 to AJ-228A7. Change catalog description: This course is certified by the Commission on Peace Officer Standards and Training (POST) and meets the content and hour requirements established by POST for Level II Reserve Peace Officers. This course, combined with Level I and Level III certificates, meets the regular basic academy requirements. This course covers report writing, controlled substance, laws of arrest, use of force, and patrol techniques, as well as additional POST learning domains. Revise student learning outcomes; methods of evaluation; textbooks.

GEOG-101  Physical Geography – Narinder Bansal
Change grading option from GC to GR. Change field trips to Not Required. Change class schedule description: This course covers people and their environment; and the features of climate, land forms, soil, vegetation, water, and environmental issues. Revise student learning outcomes; course assignments; methods of evaluation; textbooks.

PSY-101  General Psychology – Sarah Cooper
Change catalog description: Psychology is the scientific study of behavior and mental processes. Students explore the major concepts, theoretical perspectives, research methods, core empirical findings, and historic trends in psychology. Topics include research methods, neuroscience, sensation and perception, consciousness, learning, memory, motivation and emotion, lifespan development, personality, social psychology, applied psychology, disorders and therapies. Change class schedule description: This course introduces the scientific study of behavior and mental processes. Revise student learning outcomes; course content; course assignments; methods of evaluation; textbooks.

PSY-120  Biological Psychology – Sarah Cooper
Change catalog description: This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders are addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research. Change class schedule description: This course focuses on the role of biology (particularly the physiological, hormonal, and neurochemical systems) in producing behavior and mental processes. Revise student learning outcomes; course objectives; course content; course assignments; methods of evaluation; methods of instruction; textbooks.

TD-121A  Dance Rehearsal and Performance – Janel Tomblin-Brown - DENIED
Change Advisory to Concurrent enrollment in a dance technique class. Change catalog description: This course provides an educational setting for a large-scale dance performance experience. Students learn the ins and outs of a theatrical dance performance. Students, regardless of skill level, are given the opportunity to perform on stage in a professional setting with the security of an educational environment. Change class schedule description: Students have the opportunity to learn, rehearse, and perform dance(s) on stage. Revise student learning outcomes; course content; course assignments; methods of evaluation.

TD-121B  Dance Rehearsal and Performance – Janel Tomblin-Brown - DENIED
Change Advisory to Concurrent enrollment in a dance technique class. Change catalog description: This course provides an educational setting for large-scale dance performance. Students learn the ins and outs of a theatrical dance performance. Students, regardless of skill level, are given the opportunity to perform on stage in a professional setting with the security of an educational environment. Change class schedule description: Students have the opportunity to learn, rehearse, and perform dance(s) on stage. All skill levels welcome. Revise student learning outcomes; course content; course assignments; methods of evaluation.
TD-121C   Dance Rehearsal and Performance – Janel Tomblin-Brown – DENIED
Change Advisory to Concurrent enrollment in a dance technique class. Change catalog description: This course provides an educational setting for large-scale dance performance. Students learn the ins and outs of a theatrical dance performance. Students, regardless of skill level, are given the opportunity to perform on stage in a professional setting with the security of an educational environment. Change class schedule description: Students have the opportunity to learn, rehearse, and perform dance(s) on stage. Revise student learning outcomes; course content; course assignments; methods of evaluation.

TD-148A2   Introduction to Hip Hop – Janel Tomblin-Brown
Change grading option from GR to GC. Remove advisory: Medical check within the last year. Change catalog description: Students learn basic skills of hip hop dance with emphasis on creative expression, strength, coordination, and rhythmic style. Revise student learning outcomes; course content; course assignments; methods of evaluation; methods of instruction.

Motion to approve credit major course revisions except TD-121A, TD-121B, TD-121C made by Gary Kauf, seconded by Shawawka Nudurupati. Motion carried.

Motion to approve TD-121A, TD-121B, TD-121C made by Robin Kurotori, seconded by Sheida Parvasi. Motion failed.

Regarding TD-121A, TD-121B, TD-121C: SLOs have little differentiation, even the course titles are the same. Janel says the courses need to be the same. TD-121A is designed for introductory students; in TD-121B students have some understanding of the dance steps but additional steps are necessary, TD-121C dance moves are based on TD-121A and TD-121B, but additional steps are carried out in TD-121C. Curricularly speaking, there needs to be at least 50% differentiation between the courses.

NEW COURSES – CREDIT (Action)
ANTH-110   Anthropological Field Studies – Sandra Chacko
18.00 hours lecture
18.00 hours lab
Units: 1.00
Accepted for Credit: CSU
This course examines the four fields of anthropology through fieldwork. Through experiential learning students engage with the culture, natural history, archaeological history, and language of a specific area. This is a study abroad class; travel is required. (GC)

Justification made by Sandra Chacko. This is a study abroad course, tied to an 11-day trip to Peru. Course would be offered in January 2021 and provides hands-on experience in anthropology, specifically, archeology sites, human physiology--all things students do not get to experience in a lab. This course speaks heavily to the ethos of Ohlone, which is to provide a broad cultural perspective.

The Committee asked if the course is intended to focus specifically on Peru. There is a possibility to offer other courses with different locations, but right now the course is just for Peru because of the wide range of opportunity.

Motion to approve made by Sheida Parvasi, seconded by Gary Kauf. Motion carried.

NEW COURSES – NONCREDIT (Action)
None

REQUISITES (Action)
None
DEGREES/CERTIFICATES (Action)

Deactivated Degrees and Certificates:
Certificate of Accomplishment: Linux (LPI-1 and LPI-2)
Certificate of Accomplishment: Linux/UNIX System Administration

Revised Degrees and Certificates:
Certificate of Accomplishment: IT Service and Support Technician
Certificate of Accomplishment: NSA Cybersecurity
Certificate of Achievement: Database Administration
Certificate of Achievement: Information Technology
Certificate of Achievement: IT Service and Support
Certificate of Achievement: Network Administrator
Certificate of Achievement: System Administration
Associate in Arts for Transfer: Geography
Associate in Science: Database Administration
Associate in Science: Information Technology
Associate in Science: IT Service and Support
Associate in Science: Network Administrator
Associate in Science: System Administration

New Degrees and Certificates:
Certificate of Accomplishment: Network Administrator
Associate in Science for Transfer: Environmental Science

Deactivated Degrees and Certificates

Linux (LPI-1 and LPI-2): Certificate of Accomplishment – Ron Sha
This certificate is no longer valid.

Linux/UNIX System Administration: Certificate of Accomplishment – Ron Sha
This certificate is no longer valid.

Motion to approve deactivations made by Robin Kurotori, seconded by Sima. Motion carried.

Justification made by Ron Sha. While looking at all the certificates, it was noted that some are duplicates and some are no longer relevant.

Revised Degrees and Certificates

IT Service and Support Technician: Certificate of Accomplishment – Ron Sha
This certificate assists students in offering frontline or helpdesk support to end-users; help computer users in getting the most from their computer products; and lead users through various procedures, helping them to fix problems. This support is conducted over the telephone, one-on-one, or in a small group training session.

This certificate program introduces students to troubleshooting and customer service, networking, operating systems, system administration, and security—all the fundamentals of IT support that are critical for success in the workplace.

Certificates of accomplishment are awarded upon the completion of an organized course of study for a specific purpose, usually career or job related. Certificates of accomplishment consist of a maximum of 17.5 units and allow students to finish the program in a shorter period of time. Certificates of accomplishment are approved by Ohlone's Curriculum Committee and the Ohlone Community College Board of Trustees, but are not approved by the California Community Colleges Chancellor's Office. Therefore, per Title 5 of the California Code of Regulations (55070.b), certificates of accomplishment may not appear on a student's transcript.
In order to earn a certificate of accomplishment students must:

a. complete satisfactorily the courses listed for the particular certificate.
b. complete at least 50% of the required units at Ohlone College.
c. maintain a 2.0 grade point average.

Student Learning Outcomes

1. Install a Windows operating system.
2. Configure and troubleshoot access to resources, hardware devices, and drivers; the desktop and user computing environments; and network protocols and services.
3. Demonstrate appreciation of the IT Service and Support career field and the need to be lifelong learners

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>IT Essentials (CompTIA A+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units = 13

- Remove CNET-151 and CNET-154 so the courses can be deactivated.
- Remove CNET-155A, CNET-160A, and CNET-160B.
- Add CNET-142, CNET-146, and CNET-162.
- Change total units from 14 to 13.

NSA Cybersecurity: Certificate of Accomplishment – Ron Sha – RESCINDED BY FACULTY

The purpose of this certificate is to provide students with an overall view of computer and networked security. The goal of this program is to train students to be able to effectively design, implement, and support security policies for small, medium, and large scale enterprise networks. Students are exposed to a wide variety of security analysis/defensive tools, implement these tools, and then attempt to circumvent them. Upon completion of coursework, students will have the foundation needed to pursue CompTIA’s Security+ certification.

These courses are part of National Security Agency (NSA) National Center of Academic Excellence in Cyber Defense Education (CAE-CDE).

Certificates of accomplishment are awarded upon the completion of an organized course of study for a specific purpose, usually career or job related. Certificates of accomplishment consist of a maximum of 17.5 units and allow students to finish the program in a shorter period of time. Certificates of Accomplishment are approved by Ohlone’s Curriculum Committee and the Ohlone Community College District Board of Trustees, but are not approved by the California Community Colleges Chancellor’s Office. Therefore, per Title 5 of the California Code of Regulations (55070.b), Certificates of Accomplishment may not appear on a student’s transcript.

In order to earn a certificate of accomplishment, students must:

a. complete satisfactorily the courses listed for the particular certificate.
b. complete at least 50% of the required units at Ohlone College.
c. maintain a 2.0 grade point average.

Student Learning Outcomes

1. Identify and assess security risks and potential threats to computing and networking resources.
2. Develop effective countermeasures aimed at protecting data and computer assets.
Revisions to NSA Cybersecurity: Certificate of Accomplishment approved. Concern was expressed that currently the courses required for this certificate are identical to the courses in the new Network Administrator Certificate of Accomplishment, and the certificates need to be different. The Committee agreed that programs need to be at least 50% different. The Curriculum Committee agreed that before the February 2020 Curriculum Committee meeting discipline faculty either need to deactivate this certificate or revise the certificate so it is different from the new Network Administrator Certificate of Accomplishment.

Spring 2020 updates: It was shared at the February Curriculum Committee meeting that Ron Sha would like to create a Cybersecurity Certificate of Achievement, worth 17 units, instead of having a Cybersecurity Certificate of Accomplishment. As of the March 2, 2020 Curriculum Committee meeting the request to revise the Cybersecurity Certificate of Accomplishment is being rescinded. For the 2020-2021 catalog the Cybersecurity Certificate of Accomplishment will appear identically to how the certificate appears in the 2019-2020 catalog. Discipline faculty will work to deactivate the current Cybersecurity Certificate of Accomplishment and create a new NSA Cybersecurity Certificate of Achievement that is at least 50% different from the Network Administrator Certificate of Accomplishment. Approval would be effective for Fall 2021 at the earliest.

**Database Administration: Certificate of Achievement – Ron Sha**

The Certificate of Achievement in Database Administration prepares students to either enter the workforce as an entry-level information and communication technologies (ICT) professional or to pursue a baccalaureate degree in computer science. Graduates of the Associate Degree in Database Administration are prepared and eligible to sit for Microsoft and/or Oracle certification exams. Topics addressed include database administration, Structured Query Language (SQL), programming practices, desktop databases, and information systems management. Database design, installation, programming, security, recovery, and backup are also addressed.

As the use of technology expands throughout the economy, available positions in database administration are expected to grow 9% from 2018 to 2028, according to the Bureau of Labor Statistics (www.bls.gov).

Earning this certificate of achievement is advantageous for students who already have a degree but are looking to update their existing skills. The courses required in this certificate can also be used toward the Associate in Science in Database Administration.

Requirements for certificate of achievement

a. Complete Major Field courses.

b. Complete at least six units at Ohlone College.

c. Maintain a 2.0 grade point average in Major Field courses.

Student Learning Outcomes

1. Support the data management needs of business through the design, implementation, and maintenance of relational databases.

2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.
### Information Technology: Certificate of Achievement – Ron Sha

The Certificate of Achievement in Information Technology prepares students to either enter the workforce as an IT support technician or IT system administrator, or pursue a bachelor's degree in managing information systems.

IT support technicians provide technical assistance to computer users. They may answer questions or resolve computer problems for clients in person, or via telephone or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Computer network technicians analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. They perform network maintenance to ensure networks operate correctly with minimal interruption.

Earning this certificate of achievement is advantageous for students who already have a degree but are looking to update their existing skills. The courses required in this certificate can also be used towards the Associate in Science in Information Technology.

- a. Complete Major Field and Elective Courses.
- b. Complete at least six units at Ohlone College.
- c. Maintain a 2.0 grade point average in Major Field and Elective Courses.

**Student Learning Outcomes**

1. Apply fundamental knowledge of computing and the current use of technology techniques, skills, and tools necessary for the computing practice.
2. Demonstrate the ability to locate, critically evaluate, and solve business problems with technology solutions using qualitative and quantitative information.
3. Demonstrate a fundamental ability to identify and analyze user needs in the selection, creation, evaluation, and administration of computer-based systems.
4. Provide information technology technical assistance to computer and network users.
5. Demonstrate appreciation of the IT career field and the need to be lifelong learners.

### MAJOR FIELD

<table>
<thead>
<tr>
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<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units = 12**
ELECTIVE COURSES
Complete a minimum of six units from the following courses:

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<tbody>
<tr>
<td>CNET-105</td>
<td>IT Essentials (CompTIA A+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-135</td>
<td>Oracle Database Administration</td>
<td>2</td>
</tr>
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<td>CNET-137</td>
<td>Introduction to SQL</td>
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<td>CNET-173</td>
<td>Ethical Hacking</td>
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<td>CNET-174</td>
<td>Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CNET-175</td>
<td>Cloud Security Fundamentals</td>
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</tbody>
</table>

Total Units = 6-9
Total Units = 18-21

- Change catalog description.
- Change requirements.
- Remove CNET-103, CNET-105, CS-101, and CS-102 from Major Field.
- Remove CNET-154 from Major Field so the course can be deactivated.
- Add CNET-145, CNET-162, and CNET-170 to Major Field.
- Change Major Field units from 13-14 to 12.
- Remove CNET-155B and CNET-170 from Elective Courses.
- Remove CNET-151 from Elective Courses so the course can be deactivated.
- Add CNET-105, CNET-142, and CNET-175 to Elective Courses.
- Change Elective Courses units from 6-8 to 6-9.
- Remove Supporting Courses.
- Change total units from 22-26 to 18-21.

IT Service and Support: Certificate of Achievement – Ron Sha
IT service and support technicians provide a single point of contact for end users to receive support and maintenance within the organization's desktop computing environment. This includes installing, diagnosing, repairing, maintaining, and upgrading all PC hardware and equipment to ensure optimal workstation performance.

Earning this certificate of achievement is advantageous for students who already have a degree but are looking to update their existing skills to enhance their current career or change to a new career. The courses required in this certificate can also be used toward the Associate in Science in IT Service and Support.

Complete Major Field and Supporting Courses.
   a. Complete at least six units at Ohlone College.
   b. Maintain a 2.0 grade point average in Major Field and Supporting Courses.

Student Learning Outcomes
1. Demonstrate confidence to work independently to setup, configure, and maintain a desktop computer (client or server), stand-alone application, and/or computer system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a desktop computer (client or server), stand-alone application, and/or computer system.
3. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

Major Field
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</table>
Supporting Courses
Complete minimum 5 units from the following:

<table>
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<tr>
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</thead>
<tbody>
<tr>
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<td>Introduction to Emerging Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122A</td>
<td>Information Storage and Management - EMC</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-147</td>
<td>Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>Connecting Networks (CCNA4)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units = 5-8

Total Units = 18-21

- Change catalog description.
- Remove CNET-151 and CNET-154 from Major Field so the courses can be deactivated.
- Add CNET-146, CNET-162, and CNET-170 to Major Field.
- Change Major Field units from 20 to 13.
- Remove CNET-101/CS-101, CNET-152/CS-152, CNET-155B, CNET-170, CS-102, and CS-104A from Supporting Courses.
- Remove CNET-145/CS-145 and CNET-157/CS-157 from Supporting Courses so the courses can be deactivated.
- Change Supporting Courses units from 3-4 to 5-8.
- Change total units from 23-24 to 18-21.

Network Administrator: Certificate of Achievement – Ron Sha

Network administrators manage all of the day-to-day aspects of a computer network. In addition to configuring networks they are responsible for making the network operational 24 hours a day. Tasks performed include installing and configuring new equipment, including desktop PCs and servers; troubleshooting day-to-day problems and unusual issues with networked equipment; and evaluating the need for upgrades or replacements of current computer hardware and software solutions.

Network administrators manage an organization’s servers and desktop and mobile equipment. They ensure that email and data storage networks work properly. They also make sure that employees’ workstations are working efficiently and stay connected to the central computer network. Some administrators manage telecommunication networks.

Earning this certificate of achievement is advantageous for students who already have a degree but are looking to update their existing skills. The courses required in this certificate can also be used toward the Associate in Science in Network Administrator.

Requirements for Certificate of Achievement:
- a. Complete Major Field courses.
- b. Complete at least six units at Ohlone College.
- c. Maintain a 2.0 grade point average in Major Field courses.

Student Learning Outcomes
1. Demonstrate confidence to work independently to setup, configure, and maintain a network; stand-alone or network application; and a network system.
2. Demonstrate techniques to troubleshoot situations that impact a network; stand-alone or network application; and a network system.
3. Demonstrate a basic computer programming language knowledge and skills.

MAJOR FIELD
CNET-146  Introduction to UNIX/Linux  3
CNET-155A  Introduction to Networks (CCNA1)  3
CNET-162  Windows Server Installation and Configuration Administration  2
CNET-170  Network Security (Security+)  4

Complete 6-9 units from the following courses:
CNET-142  Introduction to Programming with Python  4
CNET-155B  Routing and Switching Essentials (CCNA2)  3
CNET-156A  Scaling Networks (CCNA3)  2
CNET-156B  Connecting Networks (CCNA4)  2

Total Units = 18-21

- Change catalog description.
- Change student learning outcomes.
- Remove CNET-140, CNET-164, COMM-125, and ENGL-156 from Major Field.
- Add CNET-146 to Major Field.
- Add CNET-142, CNET-155B, CNET-156A, and CNET-156B to requirement of completing 6-9 units.
- Change total units from 21 to 18-21.

System Administration: Certificate of Achievement – Ron Sha
The Certificate of Achievement in System Administration prepares students to either enter the workforce as an entry-level information and communication technologies (ICT) professional or pursue a bachelor's degree in managing information systems. Graduates of the Certificate of Achievement in System Administration are prepared and eligible to sit for Microsoft and/or Linux certification exams. Competency in Microsoft® and/or Unix/Linux systems administration and network administration is required.

A system administrator, or “sysadmin,” is a person who is responsible for the upkeep, configuration, and reliable operation of computer systems, especially multi-user computers such as servers. The system administrator seeks to ensure that the uptime, performance, resources, and security of the computers he or she manages meet the needs of the users, without exceeding the budget. To meet these needs a system administrator may acquire, install, or upgrade computer components and software; automate routine tasks; write computer programs; troubleshoot; train and/or supervise staff; and provide technical support.

As the use of technology expands throughout the economy, available positions in system administration are expected to grow. Employment of network and computer systems administrators is expected to grow 5% from 2018 to 2028, according to the Bureau of Labor Statistics (www.bls.gov). Demand for these workers is high and should continue to grow as firms invest in newer, faster technology and mobile networks. System administrators are employed in all industry where there are computers which means majority of companies such as in the computer system design and related services industry, financial firms, hospitals and government offices.

Earning this certificate of achievement is advantageous for students who already have a degree but are looking to update their existing skills. The courses required in this certificate can also be used towards the Associate in Science in System Administration.

Requirements for certificate of achievement:
 a. Complete Major Field courses and System Administrator Focus courses.
 b. Complete at least six units at Ohlone College.
c. Maintain a 2.0 grade point average in Major Field courses and System Administrator Focus courses.

Student Learning Outcomes

1. Setup, configure, maintain, and troubleshoot computer systems, stand-alone application, and/or various computer operating systems (client, server, and network).
2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 12

System Administrator Focus

Complete six units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-120</td>
<td>VM ware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122A</td>
<td>Information Storage and Management - EMC</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122B</td>
<td>Cloud Infrastructure and Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-135</td>
<td>Oracle Database Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Windows Server Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-172</td>
<td>CCNA Security</td>
<td>3</td>
</tr>
<tr>
<td>CNET-173</td>
<td>Ethical Hacking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-174</td>
<td>Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CNET-175</td>
<td>Cloud Security Fundamentals</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 6

Total Units = 18

- Change catalog description.
- Add CNET-170 to Major Field.
- Remove COMM-125 and ENGL-156 from Major Field.
- Move CNET-120, CNET-122A, CNET-122B, and CNET-164 from Major Field to System Administrator Focus.
- Change Major Field units from 19 to 12.
- Remove Linux System Administrator Focus and Microsoft System Administrator Focus.
- Remove CNET-140, CNET-141, CNET-166, CNET-167, CNET-168A, and CNET-168B from System Administrator Focus.
- Add CNET-135, CNET-137, CNET-142, CNET-147, CNET-164, CNET-172, CNET-173, CNET-174, and CNET-175 to System Administrator Focus.
- Change System Administrator Focus units from 8 to 6.
- Change total units from 27 to 18.

**Geography: Associate in Arts for Transfer – Narinder Bansal**

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer,” a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts in Geography for Transfer is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students should consult with a counselor when planning to complete the degree for more information on...
university admission and transfer requirements.

The Associate in Arts in Geography for Transfer establishes a clear pathway to transfer. Students will have received basic training in regional variations of the world, as well as human modification of the physical environment. Students will gain lab experience with map analysis, weather, and landform features, and will be educated in current theories of how different cultures use, abuse, or otherwise change the Earth. The degree offers an excellent background for careers in public policy, humanities, and environmental studies.

Requirements for Associate in Arts Degree in Geography for Transfer
a. Complete Required Core, List A, and List B courses with a grade of C or better.
b. Complete CSU GE (Plan B) or IGETC for CSU (Plan C) General Education requirements. These requirements are specified in the Ohlone College catalog.
c. Complete 60 CSU-transferable semester units.
d. Complete a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
e. Complete 20 semester units in the Geography major.
f. Complete at least 12 units at Ohlone College.

Student Learning Outcomes
1. Assess the preservation of natural resources and the potential impact of societies overusing natural resources.
2. Discuss and describe the origins, diversity, and distribution of basic cultural patterns, with particular attention given to language, religion, urbanization, political and economic patterns, and human-environment interactions.

REQUIRED CORE
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG-101</td>
<td>Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG-102</td>
<td>Cultural Geography OR</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-104</td>
<td>World Regional Geography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units = 7</td>
<td></td>
</tr>
</tbody>
</table>

LIST A
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG-105</td>
<td>California Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG-121</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Units = 6</td>
<td></td>
</tr>
</tbody>
</table>

LIST B
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH-102</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL-101</td>
<td>Introduction to Geology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Units = 7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Units = 20</td>
<td></td>
</tr>
</tbody>
</table>

- Move GEOG-104 to Required Core as “or” with GEOG-102.
- Add GEOG-121 to List A.

Database Administration: Associate in Science – Ron Sha
The Associate in Science in Database Administration prepares students to either enter the workforce as an entry-level information and communication technologies (ICT) professional or pursue a baccalaureate degree in computer science. Graduates of the Associate in Science in Database Administration are prepared and eligible to sit for Microsoft and/or Oracle certification exams. Topics addressed include database administration, Structured Query Language (SQL), programming practices, desktop databases, and information systems management. Database design, installation, programming, security, recovery, and backup are also addressed.
Generally, no courses beyond a high school diploma are needed to be admitted into these programs. However, most courses recommend a background in computer science, information systems, and information and communication technologies.

Most graduates who enter the workforce work as database administrators or database associates. Other possible careers open to graduates of an associate degree in database administration include database program designer, database programmer (application developer), and database analyst.

As the use of technology expands throughout the economy, available positions in database administration are expected to grow 9% from 2018-2028, according to the Bureau of Labor Statistics (www.bls.gov).

a. Complete Major Field and Supporting Courses with a grade of C or better.

b. Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC for CSU (Plan C) requirements. These requirements are specified in the Ohlone College catalog.

c. Complete at least 60 degree-applicable units with a 2.0 grade point average.

d. Complete at least 12 units at Ohlone College.

Student Learning Outcomes
1. Support the data management needs of business through the design, implementation and maintenance of relational databases.
2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.
3. Demonstrate a basic database computer programming language knowledge and skills.

### MAJOR FIELD

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-103</td>
<td>Introduction to Business Intelligence</td>
<td>4</td>
</tr>
<tr>
<td>CNET-135</td>
<td>Oracle Database Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 19

### SUPPORTING COURSES

Complete a minimum of six units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Windows Server Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

Complete 1-4 units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEX-195A1</td>
<td>Occupational Work Experience Education</td>
<td>1</td>
</tr>
<tr>
<td>WEX-195A2</td>
<td>Occupational Work Experience Education</td>
<td>2</td>
</tr>
<tr>
<td>WEX-195A3</td>
<td>Occupational Work Experience Education</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A4</td>
<td>Occupational Work Experience Education</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete a minimum of four units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>IT Essentials (CompTIA A+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-107</td>
<td>IT Service Management (ITIL)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-122A</td>
<td>Information Storage and Management - EMC</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122B</td>
<td>Cloud Infrastructure and Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-172</td>
<td>CCNA Security</td>
<td>3</td>
</tr>
<tr>
<td>CNET-175</td>
<td>Cloud Security Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units = 11-19
• Change catalog description.
• Change requirements.
• Change GE requirement from IGETC to IGETC for CSU.
• Change student learning outcomes.
• Remove CNET-136, CNET-155A, COMM-125, and ENGL-156 from Major Field.
• Remove CNET-168A and CNET-168B from Major Field so the courses can be deactivated.
• Add CNET-103, CNET-146, CNET-162, and CNET-170 to Major Field.
• Change Major Field units from 18 to 19.
• Remove Database Administrator Focus.
• Add CNET-108, CNET-120, CNET-142, CNET-147, CNET-155A, and CNET-164 to new requirement of completing a minimum of six units of Supporting Courses.
• Change Supporting Courses requirement from four units to a minimum of four units.
• Remove CNET-108, CNET-120, CNET-170, CS-104A, and CS-145 from Supporting Courses (four units requirement).
• Remove CS-145 from Supporting Courses (minimum four units requirement) so the course can be deactivated.
• Add CNET-107, CNET-172, and CNET-175 to Supporting Courses (four units requirement).
• Change total units from 31-34 to 30-38.

Information Technology: Associate in Science – Ron Sha
The Associate in Science in Information Technology prepares students to either enter the workforce as an IT support technician or IT system administrator, or pursue a bachelor’s degree in managing information systems.

IT support technicians provide technical assistance to computer users. They may answer questions or resolve computer problems for clients in person, or via telephone or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Computer network technicians analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. They perform network maintenance to ensure networks operate correctly with minimal interruption.

Graduates of the Associate in Science in Information Technology are prepared and eligible to sit for CompTIA’s A+ and Network+ certification exams. Optional elective courses prepare students for CompTIA’s Server+ and Security+ exams.

a. Complete Major Field, Elective Courses, and Supporting Courses with a grade of C or better.
b. Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC for CSU (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
c. Complete at least 60 degree-applicable units with a 2.0 grade point average.
d. Complete at least 12 units at Ohlone College.

Student Learning Outcomes
1. Apply fundamental knowledge of computing and the current use of technology techniques, skills, and tools necessary for the computing practice.
2. Demonstrate the ability to locate, critically evaluate, and solve business problems with technology solutions using qualitative and quantitative information.
3. Demonstrate a fundamental ability to identify and analyze user needs in the selection, creation, evaluation, and administration of computer-based systems.
4. Provide information technology technical assistance to computer and network users.
5. Demonstrate appreciation of the IT career field and the need to be lifelong learners.
6. Demonstrate a basic knowledge and skills of computer programming language.
7. Demonstrate broad understanding of Information Technology related knowledge in the area of Networking, Operating Systems, Cyber Security and Programming Languages.

MAJOR FIELD
CNET-137 Introduction to SQL 4
CNET-142 Introduction to Programming with Python 4
CNET-146 Introduction to UNIX/Linux 3
CNET-155A Introduction to Networks (CCNA1) 3
CNET-162 Windows Server Installation and Configuration Administration 2
CNET-170 Network Security (Security+) 4
Total Units = 20

ELECTIVE COURSES
Courses cannot be counted more than once to apply towards both Elective Courses and Supporting Courses. Complete a minimum of six units from the following courses:

CNET-105 IT Essentials (CompTIA A+) 4
CNET-108 IT Project Management 3
CNET-135 Oracle Database Administration 2
CNET-155B Routing and Switching Essentials (CCNA2) 3
CNET-172 CCNA Security 3
CNET-173 Ethical Hacking 3
CNET-174 Computer Forensics 3
CNET-175 Cloud Security Fundamentals 4
Total Units = 6-9

SUPPORTING COURSES
Courses cannot be counted more than once to apply towards both Elective Courses and Supporting Courses. Complete a minimum of nine units from the following courses:

CNET-103 Introduction to Business Intelligence 4
CNET-105 IT Essentials (CompTIA A+) 4
CNET-108 IT Project Management 3
CNET-120 VMware: Install, Configure, Manage 2
CNET-122A Information Storage and Management - EMC 2
CNET-122B Cloud Infrastructure and Services 2
CNET-132 Introduction to Data Analytics 2
CNET-135 Oracle Database Administration 2
CNET-172 CCNA Security 3
Total Units = 9-12
Total Units = 35-41

• Change catalog description.
• Change student learning outcomes.
• Change GE requirement from IGETC to IGETC for CSU.
• Remove CNET-103, CS-101, CNET-105, and CS-102 from Major Field.
• Remove CNET-154 from Major Field so the course can be deactivated.
• Add CNET-137, CNET-142, CNET-146, CNET-162, and CNET-170 to Major Field.
• Change Major Field units from 13-14 to 20.
• Add double counting statement to Elective Courses.
• Remove CNET-137 and CNET-170 from Elective Courses.
• Remove CNET-151 from Elective Courses so the course can be deactivated.
• Add CNET-105, CNET-172, and CNET-175 to Elective Courses.
• Change Elective units from 6-8 to 6-9.
• Add double counting statement to Supporting Courses.
• Change statement requiring a minimum of three units of Supporting Courses to a minimum of nine units of Supporting Courses.
• Remove CNET-140, CNET-146, CNET-162, and CNET-164 from Supporting Courses.
• Change Supporting Courses units from 3-4 to 9-12.
• Change total units from 22-26 to 35-41.

**IT Service and Support: Associate in Science – Ron Sha**

IT Service and Support technicians provide a single point of contact for end users to receive support and maintenance within the organization's desktop computing environment. This includes installing, diagnosing, repairing, maintaining, and upgrading all PC hardware and equipment to ensure optimal workstation performance. The technician will also troubleshoot problem areas (in person, by telephone, or via email) in a timely and accurate fashion, and provide end-user assistance where required.

Computer support technicians provide technical assistance to computer users. They may answer questions or resolve computer problems for clients in person, via telephone, or electronically. They may provide assistance concerning the use of computer hardware and software, including printing, installation, word processing, electronic mail, and operating systems. Computer network technicians analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption.

Graduates with an Associate in Science in IT Service and Support are prepared and eligible to sit for CompTIA’s A+ and Network+ certification exams. Optional elective courses prepare students for CompTIA’s Server+ and Security+ exams.

The Associate in Science in IT Service and Support prepares students to either enter the workforce as an entry-level computer or network support technician or pursue a bachelor’s degree in managing information systems.

a. Complete Major Field, Supporting Courses, and Internship with a grade of C or better.
b. Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC for CSU (Plan C). These requirements are specified in the Ohlone College catalog.
c. Complete at least 60 degree-applicable units with a 2.0 grade point average.
d. Complete at least 12 units at Ohlone College.

Student Learning Outcomes
1. Demonstrate confidence to work independently to setup, configure, and maintain a desktop computer (client or server); stand-alone application; and/or computer system.
2. Demonstrate techniques to troubleshoot situations that impact the operation of a desktop computer (client or server); stand-alone application; and/or computer system.
3. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.
4. Demonstrate the understanding of IT service management concepts such as IT processes, procedures, tasks, and checklists as part of ITIL framework.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>IT Essentials (CompTIA A+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-107</td>
<td>IT Service Management (ITIL)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Admin</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
</tbody>
</table>
SUPPORTING COURSES
Complete a minimum of five units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-104</td>
<td>Introduction to Emerging Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-122A</td>
<td>Information Storage and Management - EMC</td>
<td>2</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>Connecting Networks (CCNA4)</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Units = 5-7

INTERNSHIP

WEX-195A4 Occupational Work Experience Education

Total Units = 4

Total Units = 31-33

- Change catalog description.
- Change GE requirement from IGETC to IGETC for CSU.
- Change student learning outcomes.
- Remove CNET-151 and CNET-154 from Major Field so the courses can be deactivated.
- Add CNET-120, CNET-142, CNET-146, CNET-162, and CNET-170 to Major Field.
- Change Major Field units from 20 to 22.
- Change statement requiring 3-4 units of Supporting Courses to a minimum of five units of Supporting Courses.
- Remove CNET-101/CS-101, CNET-152/CS-152, CNET-155B, CNET-170, CS-102, and CS-104A from Supporting Courses.
- Remove CNET-145/CS-145 and CNET-157/CS-157 from Supporting Courses so the courses can be deactivated.
- Change Supporting Courses units from 3-4 to 5-7.
- Change total units from 27-28 to 31-33.

Network Administrator: Associate in Science – Ron Sha

Network administrators manage all of the day-to-day aspects of a computer network. In addition to configuring networks they are responsible for making the network operational 24 hours a day. Tasks performed include installing and configuring new equipment, including desktop PCs and servers; troubleshooting day-to-day problems and unusual issues with networked equipment; and evaluating the need for upgrades or replacements of current computer hardware and software solutions. Students who complete this program can become employed as a network administrator in virtually all businesses and enterprises where computers and networks are used. Students are also well prepared for industry certification.

Computer networks are critical parts of almost every organization. Network and computer systems administrators are responsible for the day-to-day operation of these networks. They organize, install, and support an organization’s computer systems, including local area networks (LANs), wide area networks (WANs), network segments, intranets, and other data communication systems

Network administrators manage an organization’s servers and desktop and mobile equipment. They ensure that email and data storage networks work properly. They also make sure that employees’ workstations are working efficiently and stay connected to the central computer network. Some administrators manage telecommunication networks.
The Associate in Science in Network Administrator prepares students to either enter the workforce as a network administrator or pursue a bachelor's degree in managing information systems.

Requirements for Associate in Science Degree
1. Complete Major Field and Supporting Courses with a grade of C or better.
2. Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC for CSU (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
3. Complete at least 60 degree-applicable units with a 2.0 grade point average.
4. Complete at least 12 units at Ohlone College.

Student Learning Outcomes
2. Describe the operations and benefits of the Spanning Tree Protocol (STP).
3. Describe the operations and benefits of link aggregation and Cisco VLAN Trunk Protocol (VTP).
5. Configure and troubleshoot advanced operations of routers and implement RIP, OSPF, and EIGRP routing protocols for IPv4 and IPv6.
6. Manage Cisco IOS® Software licensing and configuration files.

MAJOR FIELD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Routing and Switching Essentials (CCNA2)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>Scaling Networks (CCNA3)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>Connecting Networks (CCNA4)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 23

SUPPORTING COURSES

Complete one course from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEX-195A1</td>
<td>Occupational Work Experience Education OR</td>
<td>1</td>
</tr>
<tr>
<td>WEX-195A2</td>
<td>Occupational Work Experience Education OR</td>
<td>2</td>
</tr>
<tr>
<td>WEX-195A3</td>
<td>Occupational Work Experience Education OR</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A4</td>
<td>Occupational Work Experience Education</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete 5-8 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>IT Essentials (CompTIA A+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-107</td>
<td>IT Service Management (ITIL)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122A</td>
<td>Information Storage and Management - EMC</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122B</td>
<td>Cloud Infrastructure and Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-135</td>
<td>Oracle Database Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Windows Server Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-172</td>
<td>CCNA Security</td>
<td>3</td>
</tr>
<tr>
<td>CNET-173</td>
<td>Ethical Hacking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-174</td>
<td>Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CNET-175</td>
<td>Cloud Security Fundamentals</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 6-12

Total Units = 29-35

- Change catalog description.
- Change GE requirement from IGETC to IGETC for CSU.
• Change student learning outcomes.
• Remove CNET-164, CNET-140, COMM-125, and ENGL-156 from Major Field.
• Add CNET-142 and CNET-146 to Major Field.
• Remove CNET-136, CNET-141, CNET-146, and CNET-166 from Supporting Courses.
• Remove CNET-124A, CNET-124B, CNET-158, CNET-180, CNET-182, CNET-184, and CNET-186 from Supporting Courses so the courses can be deactivated.
• Add CNET-107, CNET-137, CNET-164, CNET-173, CNET-174, and CNET-175 to Supporting Courses.
• Change Supporting Courses units from 5-8 to 6-12.
• Change total units from 27-33 to 29-35.

System Administration: Associate in Science – Ron Sha
The Associate in Science in System Administration prepares students to either enter the workforce as an entry-level information and communication technologies (ICT) professional or pursue a bachelor's degree in managing information systems. Graduates of the Associate in Science in System Administration are prepared and eligible to sit for Microsoft and/or Linux certification exams. Competency in Microsoft® and/or Unix/Linux systems administration and network administration is required.

A system administrator, or "sysadmin," is a person who is responsible for the upkeep, configuration, and reliable operation of computer systems, especially multi-user computers such as servers. The system administrator seeks to ensure that the uptime, performance, resources, and security of the computers he or she manages meet the needs of the users, without exceeding the budget. To meet these needs a system administrator may acquire, install, or upgrade computer components and software; automate routine tasks; write computer programs; troubleshoot; train and/or supervise staff; and provide technical support.

Generally, no courses beyond standard high school diploma requirements are needed to be admitted into these programs. However, most recommend a background in computer science, information systems, and information and communication technologies.

Most graduates enter the workforce as system administrator or sysadmin. New employment opportunities as Storage (SAN) Administrator require the system administrator to create, provision, add, or remove storage to/from computer systems and work with virtualization. Sysadmins can also work as a database administrator, network administrator, security administrator, and/or a web administrator. Tasks include managing multiple sites, administering security, and configuring necessary components and software. Responsibilities may also include software change management.

As the use of technology expands throughout the economy, available positions in system administration are expected to grow. Employment of network and computer systems administrators is expected to grow 5% from 2018 to 2028, according to the Bureau of Labor Statistics (www.bls.gov). Demand for these workers is high and should continue to grow as firms invest in newer, faster technology and mobile networks. System Administrators are employed in all industries where there are computers, which means the majority of companies such as in the computer system design and related services industry, financial firms, hospitals, and government offices.

Requirements for AS Degree:

a. Complete Major Field courses; System Administrator Focus courses; and Supporting Courses with a grade of C or better.

b. Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC for CSU (Plan C) requirements. These requirements are specified in the Ohlone College catalog.

c. Complete at least 60 degree-applicable units with a 2.0 grade point average.

d. Complete at least 12 units at Ohlone College.

Student Learning Outcomes

1. Setup, configure, maintain, and troubleshoot computer systems, stand-alone application, and/or various computer operating systems (client, server, and network).
2. Demonstrate appreciation of the ICT career field and the need to be lifelong learners.
3. Demonstrate the basic knowledge and skills of programming languages.

**MAJOR FIELD**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-142</td>
<td>Introduction to Programming with Python</td>
<td>4</td>
</tr>
<tr>
<td>CNET-146</td>
<td>Introduction to UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CNET-155A</td>
<td>Introduction to Networks (CCNA1)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-162</td>
<td>Windows Server Installation and Configuration Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 16

**System Administrator Focus**

Courses cannot be counted more than once to apply towards System Administrator Focus and Supporting Courses.

Complete a minimum of eight units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-120</td>
<td>VMware: Install, Configure, Manage</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122A</td>
<td>Information Storage and Management - EMC</td>
<td>2</td>
</tr>
<tr>
<td>CNET-122B</td>
<td>Cloud Infrastructure and Services</td>
<td>2</td>
</tr>
<tr>
<td>CNET-135</td>
<td>Oracle Database Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-137</td>
<td>Introduction to SQL</td>
<td>4</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CNET-156A</td>
<td>Scaling Networks (CCNA3)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-156B</td>
<td>Connecting Networks (CCNA4)</td>
<td>2</td>
</tr>
<tr>
<td>CNET-164</td>
<td>Windows Server Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNET-172</td>
<td>CCNA Security</td>
<td>3</td>
</tr>
<tr>
<td>CNET-173</td>
<td>Ethical Hacking</td>
<td>3</td>
</tr>
<tr>
<td>CNET-174</td>
<td>Computer Forensics</td>
<td>3</td>
</tr>
<tr>
<td>CNET-175</td>
<td>Cloud Security Fundamentals</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 8-10

**SUPPORTING COURSES**

Courses cannot be counted more than once to apply towards System Administrator Focus and Supporting Courses.

Complete 1-4 units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEX-195A1</td>
<td>Occupational Work Experience Education</td>
<td>1</td>
</tr>
<tr>
<td>WEX-195A2</td>
<td>Occupational Work Experience Education</td>
<td>2</td>
</tr>
<tr>
<td>WEX-195A3</td>
<td>Occupational Work Experience Education</td>
<td>3</td>
</tr>
<tr>
<td>WEX-195A4</td>
<td>Occupational Work Experience Education</td>
<td>4</td>
</tr>
</tbody>
</table>

Complete a minimum of four units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNET-105</td>
<td>IT Essentials (CompTIA A+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-108</td>
<td>IT Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CNET-147</td>
<td>UNIX/Linux Shell Scripting</td>
<td>4</td>
</tr>
<tr>
<td>CNET-155B</td>
<td>Routing and Switching Essentials (CCNA2)</td>
<td>3</td>
</tr>
<tr>
<td>CNET-160A</td>
<td>MS Client Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>CNET-170</td>
<td>Network Security (Security+)</td>
<td>4</td>
</tr>
<tr>
<td>CNET-172</td>
<td>CCNA Security</td>
<td>3</td>
</tr>
<tr>
<td>CS-102</td>
<td>Introduction to Computer Programming Using C++</td>
<td>3</td>
</tr>
<tr>
<td>CS-125</td>
<td>Introduction to Java Programming</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units = 5-11

Total Units = 29-37

- Change catalog description.
• Change requirements.
• Change GE requirement from IGETC to IGETC for CSU.
• Change student learning outcomes.
• Remove CNET-120, CNET-122A, CNET-122B, CNET-164, COMM-125, and ENGL-156 from Major Field.
• Add CNET-142 and CNET-170 to Major Field.
• Remove Linux System Administration Focus and Microsoft System Administrator Focus.
• Add double counting statement to System Administrator Focus.
• Remove CNET-140 and CNET-166 from System Administrator Focus.
• Remove CNET-141, CNET-167, CNET-168A, and CNET-168B from System Administrator Focus so the courses can be deactivated.
• Add double counting statement to Supporting Courses.
• Remove CS-104A, CS-147, CS-152 from Supporting Courses.
• Remove CNET-158, CNET-180, CNET-182, CNET-184, CNET-186, CS-145, CS-149, and CS-157 from Supporting Courses so the courses can be deactivated.
• Change Supporting Courses units from 4-6 to 5-11.
• Change total units from 32-37 to 29-37.

Motion to approve revised degrees and certificates made by Luba Voloshko, seconded by Shawawka Nudurupati. Motion carried.

New Degrees and Certificates

Network Administrator: Certificate of Accomplishment – Ron Sha
Network administrators manage all of the day-to-day aspects of a computer network. In addition to configuring networks they are responsible for making the network operational 24 hours a day. Tasks performed include installing and configuring new equipment, including desktop PCs and servers; troubleshooting day-to-day problems and unusual issues with networked equipment; and evaluating the need for upgrades or replacements of current computer hardware and software solutions. Students who achieve this program can become employed as a network administrator in virtually all businesses and enterprises where computers and networks are used. Students are also well prepared for industry certification.

Certificates of accomplishment are awarded upon the completion of an organized course of study for a specific purpose, usually career or job related. Certificates of accomplishment consist of a maximum of 17.5 units and allow students to finish the program in a shorter period of time. Certificates of accomplishment are approved by Ohlone’s Curriculum Committee and the Ohlone Community College Board of Trustees, but are not approved by the California Community Colleges Chancellor’s Office. Therefore, per Title 5 of the California Code of Regulations (55070.b), certificates of accomplishment may not appear on a student's transcript.

In order to earn a certificate of accomplishment students must:
  a. complete satisfactorily the courses listed for the particular certificate.
  b. complete at least 50% of the required units at Ohlone College.
  c. maintain a 2.0 grade point average.

Student Learning Outcomes
  1. Demonstrate confidence to work independently to setup, configure, and maintain a network; stand-alone or network application; and a network system.
  2. Demonstrate techniques to troubleshoot situations that impact a network; stand-alone or network application; and a network system.
Justification made by Ron Sha. This new certificate will provide a broader scope for individuals looking into network security. The title of the program and course selection are based on what NSA has requested and has allowed Ohlone to gain NSA approval.

Motion to approve all new degrees and certificates made by Robin Kurotori, seconded by Isabel Reichert. Motion carried.

Environmental Science: Associate in Science for Transfer – Narinder Bansal
The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer," a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Science in Environmental Science for Transfer is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. Completion of the requirements for the Associate in Science in Environmental Science for Transfer prepares students for transfer to a California State University to engage in upper division work towards a baccalaureate degree in Environmental Science. As an interdisciplinary and multidisciplinary course of study, students are presented an overview of ecological issues from a scientific perspective. With a broad foundation across the natural, physical, and biological sciences, students better understand the interrelated nature of environmental and social systems. This program is designed to equip students with the skills and tools to successfully use the scientific method while studying and solving environmental problems.

Requirements for Associate in Science for Transfer Degree:
- Complete Required Core, List A, and List B courses with a grade of C or better.
- Complete CSU GE (Plan B) or IGETC for STEM for CSU (Plan C) requirements. These requirements are specified in the Ohlone College catalog.
- Complete 60 CSU-transferable semester units.
- Obtain a minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
- Complete 38 semester units in the Environmental Science major.
- Complete at least 12 units at Ohlone College.

Student Learning Outcomes
1. Apply and relate the scientific method and synthesize its role in the development of scientific thought.
2. Critically evaluate scientific information and examine its significance and impact on society and the environment.
3. Demonstrate an understanding of the interdisciplinary nature of environmental issues.
4. Analyze and interpret quantitative data and visual representations of data.

REQUIRED CORE
- BIOL-101A Principles of Biology - Molecular and Cellular Biology 5
- CHEM-101A General Chemistry 5
- CHEM-101B General Chemistry 5
LIST A
ENVS-108 Introduction to the Environment 3
GEOG-101 Physical Geography OR 4
GEOL-101 Introduction to Geology 4
MATH-101A Calculus With Analytic Geometry 5
MATH-159 Introduction to Statistics 5
Total Units = 15

LIST B
BA-102B Principles of Economics-Microeconomics 3
PHYS-140 Mechanics 4
PHYS-141 Electricity and Magnetism 4
Total Units = 17
Total Units = 43

Justification made by Narinder Bansal. This program is based on the requirements set forth for associate degrees for transfer. The ADT is more focused on biological sciences than the current associate degree; this fits more with what universities are doing. This degree was designed for students who want a science focus in environmental studies.

Motion to approve all new degrees and certificates made by Robin Kurotori, seconded by Isabel Reichert. Motion carried.

ISSUES (Action/Information)
None

ANNOUNCEMENTS
• Screening/Norming Meeting: Wednesday, January 22, 2020, 9:00am-12:00pm, Room TBA
• Issues Meeting: Monday, February 3, 2020, 3:00pm-5:00pm, Fremont campus 7101 and Zoom Video Conference

ADJOURNED
4:57pm