

**Proposal to Fill a Full Time Faculty Position
FALL 2017**

1. Faculty Position Being Proposed

Fulltime faculty position for the Computer, Networking & Emerging Technology Department (CNET)

2. Proposal Being Made by (List Name(s) and Title(s))

Ron Sha, Full-Time Computer Networking & Emerging Technology faculty (CNET)

3. Summary description of the position

In the information and knowledge economies of the 21st century, we all increasingly depend on information and communications' technologies - and the increased connectivity and productivity they enable. CNET faculty members teach in the Information & Communication Technologies (ICT) area. Improvements to deploy ICT technologies, infrastructure, systems and solutions, and people's abilities to productively use them, are strategically important issues to individuals and organizations of all kinds – and to local, state, national and global economies.

CNET Full time faculty members would be able to teach in several of the following ICT program offerings: Desktop Support Technicians, Technical Support Specialists, Network Administration, Windows and/or UNIX/Linux System Administration, Security, and Database Administration. Full time faculty members also play a lead role in the CNET department's various industry Academy programs including: the Cisco Network Academy, Palo Alto Network Academy, Microsoft's IT Academy, the Oracle Academy, and the VMWare Academy. Full time faculty would also be required to take an active lead on portions of Ohlone's ICT Pathway programs. Currently Ohlone has relationships with local high schools, middle schools, ROP and Adult Ed institutions. Faculty members would also be responsible for collaboration with industry partners and hosting Advisory Committees as well as liaisons for other industry agencies E.g. BACCC, MPICT.

4. Rationale for filling this position: include examples of how this position impacts students, program needs, and college goals.

In the ever fast-changing-pace of Information Technology in the IT industry, where new technologies are constantly emerging and old technologies became obsolete, the CNET full time faculty must not only stay current but also maintain relationships with industry partners to keep the curriculum in-sync with today's IT needs. Currently with only one full time faculty member this is really challenging.

This position is directly related to Ohlone College's goals **#1, # 2 and # 5.**

Goal 1. Through innovative programs and services, improve student learning and achievement

Goal 2. Provide relevant sustainable Career Education (CE) that is responsive to student needs, supports student academic success, and prepares students to meet industry needs.

Goal 5. Ensure the college provides access to high quality courses and programs that meet the diverse educational needs of the community.

The CNET program relates to these goal by:

#1: This goal is met by

- a) The CNET department offering strategic placement of short & late start classes, weekend classes, hybrid and/or fully online classes.
- b) Offering students online and in class embedded tutors
- c) Maintaining close relationships with industry partners to keep the CNET curriculum current and utilize industry course content offerings.

#2 & #5: These goals are being met by

- a) Offering the latest curriculum for the Computers and Emerging Technologies. Examples of CNET's CE offerings include but are not limited to, Palo Alto Networks, CISCO, VMWare, Business Analytics and Oracle. Reasons for this are the close liaisons with Ohlone's industry partners and continual support for faculty Professional Development. **5. Are there any externally imposed requirements such as a specialized program accreditation that would put this program in jeopardy if a full time position is not filled? If so, please explain.**

No accreditation requirements however, each of the CNET department industry partnership Academy programs (Cisco, Microsoft, Palo Alto Networks, Oracle, and VMWare) require a faculty member to act as the liaison or representative administrator in each of the academies and that there be certified instructors in place to teach the curriculum offered by the respective Academy programs. Having the ability to use industry materials helps ensure that if the students want to take specific industry certification exams, the course content used by these academies would be ideal.

The remaining questions to be completed by the Division Dean

7. A statement by the Dean of the division hosting this position, which includes data evidence and analysis, include all relevant information you would the committee to consider.

The CNET Department has been very active over the last year and half in responding to new technology industry needs. However, this is not sustainable with the decrease from 3 FT faculty members to 1. The CNET department will have great difficulty to maintain its present level of activity and success without filling at least one of the vacant faculty positions. With emphasis from the State for CCC's to be positioned in a more supportive role for CE programs: that is from the influences of the measurable outcome goals required by the Strong Workforce Grant. CNET courses are being offered in local high schools, e.g. Irvington and Robertson, which allows for students to seek alternative career choices as these courses can also be used as feeder courses into many other programs offered at Ohlone College. Interest in the newer technologies has resulted in an increase in enrollment. While the entire college enrollment has decreased over all, CNET enrollments have increased. (See enrollment growth data below)

This request to hire one FT Instructor in CNET has my full support.

8. Is the position part of a Career Technical Program YES NO

QUALITATIVE DATA SUMMARY: (refer to datasheet provided by the Research & Planning Office)

9. What is the department FTES? (Data is available on the Program Review data sheet – [Academic Affairs website.](#))

Fall 2016 60.07 Spring 2017 55.20

10. What is the ratio of full-time to part-time faculty in the department?

1 FT to 12 part timers (Lin, Stewart, Powell, Shaarani, Pham, Thompson, Jones, Martin, Namboori, Elsawah, Barma, Bolt)

11. What is the ratio of FTES by Adjuncts?

42

12. What is the current WSCH/FTEF in the department?

Fall 2017 290

13. Does the position address an area of growth? If yes, include a five-year trend line for FTES.

CNET is a program that lives on the edge for state of the art technology. At this time even though the whole college shows a decline in enrollment, the CNET department has managed to increase enrollments. In comparison to 2016 FA the program where it increased from 278 students to 375- a growth of 26%. In the fall of 2017, CNET offered some Saturday classes which also boosted the enrollment. The CNET-105 "Essentials class" ran at 25 students in 2016 FA. In 2017 FA, there 51 new students taking that class. A gain of 51%. Faculty in the CNET department knowing they have to keep abreast of new technologies planned ahead in 2016 and anticipated the need for two new courses requested by employers. CNET-103 and CNET-132.(Business Intelligence and Data Analytics respectively). Within a week of posting these new offerings enrollment peaked 39 new students. Growth 100%.

LMI findings:

According to Bureau of Labor Statistics - <https://www.bls.gov/ooh/computer-and-information-technology/home.htm>, Information Technologies (IT) industry jobs growth ranging from 12%-21% over next decade.

The CNET program prepares students for employment in the field of Information Technologies (IT) industry as business analysts, database administrator, system administrator, support specialist, network engineer, web developer, cyber security specialist, or related IT positions.

Quick Facts: Computer Systems Analysts / Business Analysts:

Job Outlook, 2014-24	21% (Much faster than average)
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Computer systems analysts help organizations evaluate their computer system needs.

Computer Support Specialists:

Job Outlook, 2014-24	12% (Faster than average)
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Information Security Analysts:

Job Outlook, 2014-24	18% (Much faster than average)
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Graphs to support data

CNET Enrollment Analysis

2016 Fall vs 2017 Fall

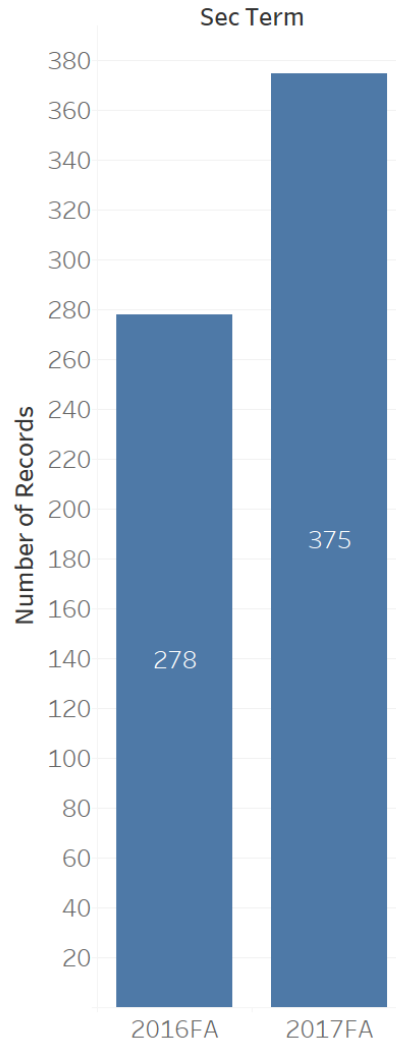
Ohlone overall enrollment: 2016FA (24042) vs 2017FA (23789): -1.06% decrease

Overall CNET
enrollment Increase
26% growth

The enrollment increase is due to new course offerings, new outreaching initiatives (new flyers, conducted various IT career seminars to students), offering courses on Saturday and offering additional course for the late-start semester.

*see outreach log for cybersecurity efforts

CNET Enrollment Comparison

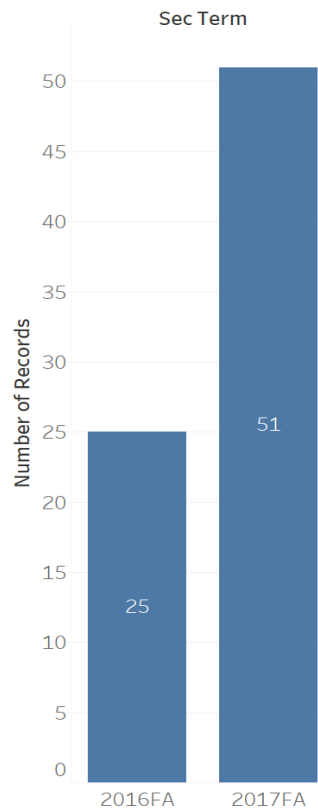


CNET 105: IT Essentials

Growth: 51%

Added sections to Saturdays and started and included promotion of these courses in our outreach program. 2017-Fall enrollment growth is 51% with net gain of 26 students compared to 2016-Fall.

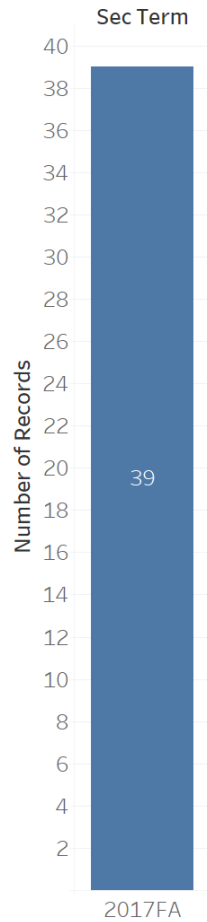
CNET Enrollment Comparison - CNET-105



CNET 103 &
CNET 132
Business
Intelligence and
Data Analytics
Growth: 100%

New program with various out-reach initiatives. An additional 39 new enrollments were attracted to the CNET program. No enrollment for 2016-FALL semester.

CNET Enrollment Comparison - CNET-103 & CNET-132

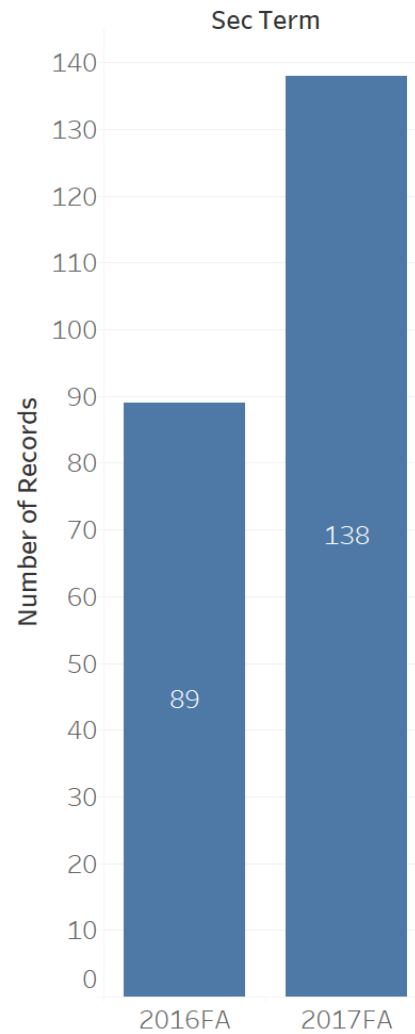


Cyber Security Program courses: **Growth: 36%**

Revamped the program. Added more late start classes and started various outreach initiatives to promote program.

Net gain enrollment from 2016-Fall to 2017-Fall is 49 students

CNET Enrollment Comparison - CNET-105, CNET-170
CNET-172 and 2 more



Participants	Advertising for Event-How was it advertised and to what groups?	Target Age Group(s)	Location	Pathway	Number of Attendees	Brief Description-Link to Flyer or Agenda
Ohlone Faculty, Industry Partners e.g. Netflix, Google, other CCC's	Website, Email	General Public/Middle/High Schools	Skyline College	C	200	Informational Meeting w/ Q&A.
Lesley Buehler, Dr. Jim Pham	Email	Continuation HS Students	Oracle, Pleasanton, CA	C	10	Informational Meeting w/ Q&A from industry partners attending and their future needs for students.
Lesley Buehler, Sonia Martin, Sal Herrera, Principal RHS	Email	Continuation HS Students	Robertson High School, (RHS)Fremont CA	A,C	35	Informational Meetings
Lesley Buehler, Sonia Martin, Sal Herrera Principal, RHS, CNET 101 students	Email		RHS Fremont ,CA	A,C	35	Informational follow up meeting.
Industry partners, other cc's, Ohlone , Dr. Jim Pham, Jesus Jimenez, Lorin Thompson	Website, Email, mostly WOM, (word of mouth referral)	General Public/Middle/High Schools/CCC's/Industry Partners	De Anza College	C	50	Cybersecurity the future job market
Ron Sha, Google	Email	College Students, Industry Partners, Educators	Google	C	25	Informational Meeting w/ Q&A.
Various Ohlone Partners, Faculty and sister CCC's			Ohlone College	A,C	55	
Ron Sha, RSA CyberSecurity participants			Moscone Center, San Francisco	C	?	https://www.rsaconference.com/events/us17
Laura Hudock, SVCP partners			Foothill College, Sunnyvale	C	?	Dawn Girardelli, Foothill College hosting
Ron Sha	Email	High School	Ohlone College, Newark Campus	C	30-40	Ron presented to High School students about the Cybersecurity Program
Laura Hudock, Sandy Jones, Suporn Chenhansa, SVCP partners	Email		CSU East Bay	A/C	30	
Laura Hudock, Industry Partners-McAfee, Symantec, Transmosis, Truvariantis	Email	College Students, Industry Partners, Educators	Symantec, Mountain View	C	40	See Cybersecurity Apprentice Fair Flyer
Ron Sha Meeting with Cybersecurity Chair and Staff	Collaborate on programs	Teachers	Merritt College	C		
Engineering, Robotics, and Technology Teacher Kristin Berbaw of Irvington High School, Lesley Buehler, Laura Hudock and Stacey Manzano	Email	High School	Irvington High School, Fremont, CA	C	4	
Ron Sha	Email	College Students, Industry Partners, Educators	Netflix, Las Gatos	C	25	Career advice to college students and Netflix engineers share day in the life of Netflix Cyber Security engineers
Ron Sha	Email	College Students, Industry Partners, Educators	Twitter, Las Gatos	C	22	Career advice to college students and Netflix engineers share day in the life of Netflix IT engineers