



5-14-2016

School of Engineering and Computer Science, Diploma and Hooding Ceremony

University of the Pacific

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School of Engineering and Computer Science

Diploma and Hooding Ceremony

Saturday, May 14, 2016 ↗ 4 pm
Knoles Lawn

University of the Pacific
Stockton, California

Share Your Commencement Experience
#UOPacific16

ACADEMIC PROCESSION

Banner Bearer

Faculty Marshals

**Candidates for the
Bachelor of Science Degree**

**Candidates for the blended
Bachelor of Science Degree
and Master of Science in
Engineering Science Degree**

**Candidates for the
Master of Science in Engineering
Science Degree**

**Faculty of the School of
Engineering and Computer Science**

**Dean of the School of
Engineering and Computer Science**

Mace Bearer

PROGRAM

Dean Steven K. Howell, Presiding

Prelude

Guests will please remain seated during the processional.

Processional

“Pomp and Circumstance,”
March No. 1 in D, Op. 39
Sir Edward Elgar (1857–1934)

Welcome *Dean Howell*

Valedictory Address *Zahi Paul Hakim*
Logan Herche
Owen Curtis Lincoln

Presentation of Graduates *Professor Ken Hughes*
Assistant Dean Gary Martin

Concluding Remarks *Dean Howell*

Recessional

Selections from Elgar’s Marches
Sir Edward Elgar (1857–1934)

A reception honoring the graduates of the School of Engineering and Computer Science will be held immediately following the Diploma and Hooding Ceremony on the lawn between Weber Hall and Burns Tower. Parents, students, faculty, honored guests and friends are cordially invited to attend.

DEGREES CONFERRED

Bachelor of Science in Bioengineering

Joshua Caesar
Fernandez Arucan
Jujhar Singh Bedi
Brandon David Bell
Amy Lynn Bolme
Erin Noelle Boongaling
Chase William Crimmins**
Tyler M. Fraser
Bradley T. Y. K. Hirayama
Thi-Vu Van Huynh
Davin Kaing
Tiffany Hiu-Ming Lee
Matthew Mannshardt
Akhil Patel
Kylee Schesser
Cameron Shields*
Gregory James Trenk
Niel Andre Walker
Muhammad Waqas**

Bachelor of Science in Civil Engineering

Melayne Simone Alexander
Yousef Hussain Alkhamis
Abdulla Alolayan
Sierra Melinda Brandt**
Robert Earl Carter III
Giles Fandio Domkam
Ryan Robert Gleave**
Jason Yuk-Wah Jung
Chad M. Kumabe

Thomas Edward Livensparger
Hayley Ann Palilla*
Ryan Scheiderer
Georgia Anne te Velde
Ryan Andrew
Azevedo Teixeira**
Susana Valencia
Ryan Christopher Ward

Bachelor of Science in Computer Engineering

Connor Maxwell Clarke
David D. De La Vega
Karla P. Duran**
Tyler Fernandez
Kelvin B. Flores
Craig Anthony Goble
Jose Cristobal Godinez Avina
Joseph Dillon Grant*
Viseith Kao Le
Gregory Lehr-Milberg
Mohammad AAA Meraj
Taylor Reece Morlan
Alexander Konold Murray
Taylor Peter Osterchrist
Tanner Shephard**
Thomas Snider
Francisco Tapia Martinez

Bachelor of Science Computer Science

Tyler Anderson
Diego Andrade
Jessica Abigail Apfel
Jose Manuel Ayala
Marcus E. Barnes
Bren Codie Atayan Belen*

Micah Daniel Byerly
Ryan W. Cabrera
Deana Maria Ceja
Chun (Joe) Cho
Cameron Mitchell Cowan*
Steven John Feltner
Alexander Flores
Cameron J. Franke
Justin Gahan Gibbs
Caitlin Hamada**
Logan Herche***
John Francis Kaehler
Edward B. Kim
William Andrew Lemley
Christopher James Liu
Jacob Macmillan**
Andrew Jesus Mora
Michael Morelli
Brianna Prebiloc Cole***
Lukas Anari Rickard***
Gary R. Roberts Jr.
Matthew Kenneth Schafer*
Jack Shih
Khanjan Sompura
Brendan Michael Soper*
Neha Tammana
Kenneth P. Thompson
Rebecca Marie Tuttle
Daniel Kiei Urabe*
Jared Weiler
Jonathan Wummer
Lavern Zhang*
Yunpeng Zhang

Bachelor of Science in Electrical Engineering

Mike Carroll
Justin T. Danaher
Christopher Charles Geeter**
Abdulrahman Ghuloum
Zahi Paul Hakim***
Daniel Paul Herink***
Hassan Safi Jahami**
Mustafa Mohamad Manah**
Viet Huy Nguyen**
Izham Shahrif Reger
Jacuelin Rodriguez
Jenny Sem
Seung Ki Song
Kenneth James Terzi
Alec Julian Tong
Kyle Patrick Ugale
Christian Fernando Vera
Niel Andre Walker
Timothy William Weatherwax**

*Cum laude **Magna cum laude ***Summa cum laude

The list of names as it appears in this program includes actual and potential graduates for the 2015–2016 academic year. The above “graduation with honors” distinctions are contingent upon final grade point average calculations at the completion of all relevant degree requirements. The official list of graduates and honors awarded for each graduation date of the 2015–2016 year is maintained by the University Registrar.

***Bachelor of Science
in Engineering Management***

Marlon Anthonie
Osio Aumentado
Claire Elizabeth Conricode
Cameron Crocker
Michael Dillard
Jack N. Dwyer
Nigel Ray Goodwin
Sammer Mitri
Alaina Diane Rossi
Ravneet Singh Sahi
Michael John Tacchella
Jordan Noel Verduzco
Ashley Diane Watanabe**

***Bachelor of Science
in Engineering Physics***

Byrne Blackwell Belden*
Antonio Rafael
Calderon-Jacobo**
Kainoa Alika Calistro-Allen
Jason Forslin
Thomas Peter Vogel*

***Bachelor of Science
in Mechanical Engineering***

Emanuel Abarca
Benjamin Aguilar**
Fahad Almenai
Abdulmohsen Y A A E Alshaiji**
Colby Christopher Anama**
Hannah Bettencourt**
Molly Bettencourt*
Andrew Jeremy Bose**
Jesse Chen
Garret Province Close
Ranjot Singh Dhaliwal
Trevor Brian Doom
Sean Ferguson

Zachary M. Gase
Oscar William Gerstenberger
Lee Graham
Maxwell Hallmark
Grace Aiko Hamann
Julio Andres Hernandez**
Austin Gregory Jarvis
Selena Dawn Kaffer**
Vincent G. Lavaroni
Daniel Lee
Anthony Charles Leonetti*
Kevin Benjamin Leong*
Katelyn Nicole Liege
Owen Curtis Lincoln***
Felix Alberto Maravillas
Alexandros-Farokh
Castañeda Maroufkhani

Armand Matossian
Kristena Machado Moules
Michael Nickel**
Zoie Marie Oberg*
Christopher J. Pallios
Scharlyce J. Powell
Joshua ArieH Saltzman
Dylan Anthony Saracco**
Stephen Manuel Siu
Sultan Stefan Soezeri
Grant James Somerville
Richard Albert Tam Jr.
William Joseph Tredennick
Joshua D. Tunquist
Henry Antonio Velasquez
Jonathan Wagenet***
Alexander James Walker
Jeremy James Wood
Curtis Takashi Yamanaka

***Master of Science
in Engineering Science***

Colby Christopher Anama
Jose Manuel Ayala
Andrew Jeremy Bose
Andrew Harris Brazil
Antonio Rafael Calderon-Jacobo
Bao Cha
Jesse Chen
Benjamin Clifton Chou
Cameron Mitchell Cowan
David D. De La Vega
Ranjot Singh Dhaliwal
Dylan Gustavo Dibble
Karla P. Duran
Edward Escamilla
Omar Eshmawi
Steven John Feltner
Zachary M. Gase
Dr. Scott Larwood
*Thesis: Below-Rated Control
of Swept-Blade Wind
Turbines*
Justin Gahan Gibbs
Evan Douglas Barr Glick
Jose Cristobal Godinez Avina
Benjamin Lewis Grafius
Logan Herche
Julio Andres Hernandez
James Dion Hightower
Jason Yuk-Wah Jung
Selena Dawn Kaffer
Vincent G Lavaroni
Ji Yeon Lee
Gregory Lehr-Milberg
Anthony Charles Leonetti
Xinxin Li
Owen Curtis Lincoln
Christopher James Liu
Felix Alberto Maravillas

Alexandros-Farokh
Castañeda Maroufkhani
Sammer Mitri
Michael Morelli
Marcus A. Moreno
Kristena Machado Moules
Alexander Konold Murray
Brendan Patrick Nichols
Michael Nickel
Rose Nish
Dr. Jeff Shafer
*Thesis: Creation of a Covert
Communications Network
for Evasion of Surveillance*
Jason O'Reilly
Zoie Marie Oberg
Amanveer Pamma
Joshua ArieH Saltzman
Dylan Anthony Saracco
Matthew Kenneth Schafer
Ryan Scheiderer
William Joseph Tredennick
Mehal B. Vitthal
David A. Waldbauer
Xueying Wang

*Cum laude **Magna cum laude ***Summa cum laude

HONOR SOCIETY INDUCTEES

Alpha Sigma Lambda

Alpha Sigma Lambda is the national honor society recognizing excellence among nontraditional students, meaning those who have returned to college later in life and who achieve academic excellence while also fulfilling adult duties of work and family life.

Logan Herche

Phi Kappa Phi

Among honor societies that induct members from all academic disciplines, Phi Kappa Phi, founded in 1897, is the nation's oldest, largest, and most selective. Invitation is extended to graduating seniors and graduate students in the top 10% of their class, and to juniors in the top 7.5% of their class. The mission of the society is to recognize and promote academic excellence and to engage the community of scholars in service to others.

Benjamin Aguilar	Logan Herche*
Abdulmohsen Y A A E	Selena Dawn Kaffer**
Alshaiji*	Ji Yeon Lee
Hannah Bettencourt*	Owen Curtis Lincoln***
Chase William Crimmins*	Michael Nickel
Karla P. Duran	Dylan Anthony Saracco**
Edward Escamilla***	Mehal B. Vitthal*
Christopher Charles Geeter	Jonathan Wagenet**

* inducted in 2015

** inducted in 2014

*** inducted in 2013

Tau Beta Pi

Founded in 1885 to recognize those who have conferred honor upon their alma mater by distinguished scholarship and exemplary character as undergraduates in the field of engineering, or by their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in the engineering colleges, Tau Beta Pi is the only national scholastic engineering honor society which recognizes academic excellence in all engineering disciplines.

Benjamin Aguilar	Zahi Paul Hakim
Abdulmohsen Y A A E	Julio Andres Hernandez
Alshaiji	Selena Dawn Kaffer
Colby Christopher Anama	Kevin Benjamin Leong
Hannah Bettencourt	Owen Curtis Lincoln
Andrew Jeremy Bose	Zoie Marie Oberg
Sierra Melinda Brandt	Hayley Ann Palilla
Chase William Crimmins	Dylan Anthony Saracco
Karla P. Duran	Ryan Andrew Azevedo Teixeira
Christopher Charles Geeter	Mehal B. Vitthal
Jonathan Wagenet	

AWARDS

Valedictorians

Zahi Paul Hakim
Logan Herche
Owen Curtis Lincoln

Outstanding School of Engineering and Computer Science Graduate

Jason Yuk-Wah Jung

Academic Excellence

Bioengineering — Muhammad Waqas
Civil Engineering — Sierra Melinda Brandt
Computer Engineering — Tanner Shephard
Computer Science — Logan Herche
Electrical Engineering — Zahi Paul Hakim
Engineering Management — Ashley Diane Watanabe
Engineering Physics — Antonio Rafael Calderon-Jacobo
Mechanical Engineering — Owen Curtis Lincoln

Outstanding Graduate

Bioengineering — Davin Kaing
Civil Engineering — Jason Yuk-Wah Jung
Civil Engineering — Hayley Ann Palilla
Computer Engineering — David D. De La Vega
Computer Science — Lukas Anari Rickard
Electrical Engineering — Timothy William Weatherwax
Engineering Management — Sammer Mitri
Engineering Physics — Thomas Peter Vogel
Mechanical Engineering — Julio Andres Hernandez

Who's Who in American Universities

Benjamin Aguilar
Abdulmohsen Y A A E Alshaiji
Hannah Bettencourt
Andrew Jeremy Bose
Karla P. Duran
Zahi Paul Hakim
Logan Herche
Selena Dawn Kaffer
Owen Curtis Lincoln
Brianna Prebilib Cole
Lukas Anari Rickard
Jonathan Wagenet
Dylan Anthony Saracco
Tanner Shephard
Muhammad Waqas
Timothy William Weatherwax

HISTORY OF THE SCHOOL

The School of Engineering and Computer Science

Engineering instruction at University of the Pacific began in 1924 as an area of concentration within College of the Pacific, producing some truly outstanding graduates. In 1958, the engineering program moved from College of the Pacific under the direction of its own dean, and became the School of Engineering. Bachelors' degrees were first offered in civil and electrical engineering and engineering management. The curricula in civil and electrical engineering were accredited in fall 1971 by the Engineering Council of Professional Development, now called the Accreditation Board for Engineering and Technology (ABET).

That same year, the School adopted a mandatory cooperative education program as a requirement for graduation, providing experiential learning through a paid engineering work experience that enhances the students' academic preparation by relating theory to practice.

The degree program in computer engineering was offered in 1978 and programs in engineering physics and mechanical engineering were instituted in 1981 and 1982. All three programs subsequently received ABET accreditation. The engineering management program was formally accredited in 2003.

Bioengineering was approved in 2000 and accredited in 2012, making the University of the Pacific the first private university in California, and one of only 11 institutions on the West Coast, with a fully accredited bioengineering program.

The computer science program was accredited by the Computer Science Accreditation Commission (also now ABET) in fall 1990 as a program in College of the Pacific. Computer Science joined the School of Engineering in 2002, creating the School of Engineering and Computer Science.

The Board of Regents approved the Master of Science in Engineering Science (MSES) graduate program in April 2009. The program was successfully launched that fall, with a concentration in civil engineering. The following year, three

additional concentrations were added: electrical/computer engineering, computer science, and mechanical engineering.

In 2015, the Board of Regents approved the Master in Analytics Program, which welcomed its inaugural class in fall of that year at Pacific's San Francisco campus. This monumental program will simultaneously leverage strengths from the Stockton campus faculty and local industry connections to create a one-of-a-kind learning experience. In 2016, an expansion of the Analytics program to the Sacramento campus was proposed and approved. Classes are scheduled to begin in spring 2017.

The 24,000-square-foot John T. Chambers Technology Center opened for classes in fall 2010. This \$12 million facility serves as the home of the School of Engineering and Computer Science and provides a strong foundation for the MSES graduate program. Equipped with the latest technology, the Chambers Technology Center contains lecture rooms, faculty offices, conference rooms, and collaborative research and teaching laboratories where students work directly with industry and government agencies to focus on modern innovations. The Chambers Technology Center was Pacific's first building to be certified as a LEED (Leadership in Energy & Environmental Design) gold facility.

The School of Engineering and Computer Science has cast a mission statement "to provide a superior, student-centered learning environment which emphasizes close faculty-student interaction and cooperative education in order to prepare graduates who excel in engineering and computer science professions, are qualified to pursue advanced degrees and possess the technical knowledge, critical thinking skills, creativity and ethical values needed for leadership in developing and applying technology for the betterment of society and sustaining the world environment."

PROFILE OF PACIFIC

University of the Pacific is an independent, coeducational university serving nearly 6,300 students on three campuses in Stockton, San Francisco and Sacramento. It was established by pioneering Methodist ministers in 1851 as California's first chartered institution of higher learning. Pacific has earned widespread recognition for its deep commitment to teaching and learning, its history of innovation, and the accomplishments of its 60,000 alumni.

As an innovator and leader in higher education, Pacific provided the state with its first chartered medical school in 1858 (which later became part of Stanford, and today is California Pacific Medical Center); its first coeducational campus in 1871; and its first conservatory of music in 1878. It was the nation's first to offer an undergraduate teacher corps program, the first to send an entire class to an overseas campus, the first to establish a Spanish-speaking inter-American college, and the first to offer a four-year graduation guarantee. With its move from San Jose to Stockton in 1924, Pacific became the first private four-year university in the Central Valley. Shortly after occupying the new campus, Pacific established one of California's earliest schools of education. In 1992 it was renamed the Gladys L. Benerd School of Education in honor of the alumna's endowed gift.

Pacific has enjoyed extraordinary stability in administration. Dr. Pamela A. Eibeck began her service in 2009 as the sixth president since the university's move to Stockton in 1924 and the 24th since its founding in 1851.

The university experienced its greatest growth and an expansion into graduate and professional education under the administration of Dr. Robert Burns (1947–1971). The School of Pharmacy opened in 1955. It is now the Thomas J. Long School of Pharmacy and Health Sciences in honor of the Pacific benefactor and Regent who co-founded the former Longs Drugs Stores. In 1956 the graduate school was created, and in 1957 the School of Engineering was established. The Department of Computer Science joined the school in 2002, and the school was subsequently renamed the School of Engineering and Computer Science.

In 1962, the university acquired the College of Physicians and Surgeons, a school of dentistry founded in San Francisco in 1896. In 2004, the school was named the Arthur A. Dugoni School of Dentistry in honor of its dean of 28 years. It was the first time any university in the United States or Canada had named its dental school for the current dean.

Three new cluster colleges were established at Pacific in the 1960s, in the model of British universities such as Oxford and Cambridge. These colleges integrated faculty and students into distinct living and learning communities. Raymond College, established in 1962, was an accelerated, interdisciplinary liberal arts program in which students shaped their own courses of study. Elbert Covell College, established in 1963, was a unique inter-American college. Half the students were from the U.S. and half from Latin America, with classes taught in Spanish. Callison College, established in 1967, focused on non-Western studies with a year of study in an Asian culture.

The cluster colleges were absorbed into the rest of the university in 1982. Their values, including a close-knit learning community, accelerated and interdisciplinary programs, and self-designed majors, have left a lasting impact on Pacific. Their emphasis on global education continued in the School of International Studies, founded in 1987 as the first university-based undergraduate school of international studies in California. In 2012, the School of International Studies, while retaining its autonomy as a school, became part of the College of the Pacific.

In 1966, Pacific broadened its footprint to Sacramento when McGeorge College of Law, an independent law school founded in Sacramento in 1924, merged with the university as the Pacific McGeorge School of Law. In 1977, the department of business administration in College of the Pacific was reorganized as the School of Business and Public Administration. In 1995 it was renamed Eberhardt School of Business in honor of the Eberhardt family's endowed gifts. Programs designed specifically for adult re-entry students were reorganized and revitalized in 1985 through University College, now the Center for Professional and Continuing Education.

Over the last 20 years, Pacific has advanced its legacy of innovation and leadership. Under the leadership of President Donald V. DeRosa (1995–2009), the university invested more than \$200 million in facilities renovation and construction projects on all three campuses. Pacific also increased distinctive accelerated programs that enabled students to complete undergraduate studies in combination with professional degrees in pharmacy, law, dentistry and business. The university intensified its commitment to experiential learning, including Pacific undergraduate research, internships, community service and education abroad. Pacific also launched the Brubeck Institute, dedicated to building on the legacy of Dave Brubeck '42, and

the Powell Scholars Program, a premier scholarship program for undergraduate student leaders.

Under the stewardship of Pacific's current president, Pamela A. Eibeck, Pacific is expanding its presence in Sacramento and San Francisco and implementing a bold new strategic vision, *Pacific 2020*. This vision capitalizes on Pacific's highly regarded academic programs, formative student-teacher relationships and multiple locations to position University of the Pacific to become the best teaching-focused university in California — the first choice for talented students who want excellent programs, close working relationships with faculty, a challenging but supportive learning environment, and an exciting future after graduation.

In 2013, the university received a transformational gift of \$125 million from the estate of the late Regents Robert and Jeannette Powell. The Powells were ardent champions of the university's educational mission, and great advocates for access and excellence. In accordance with their wishes, their gift has been endowed and earmarked largely for scholarships and academic programs. A large portion of the gift is being used to encourage others to make endowment gifts through the Powell Match Program. Our donors' generosity and passion for Pacific will mean that generations of students will be able to achieve a superior education.

Pacific is leveraging its presence in three of Northern California's most prominent cities. In July 2014, the university opened a stunning new campus in San Francisco at 155 Fifth Street. The campus provides the requisite space and facilities for the Arthur A. Dugoni School of Dentistry to continue defining the frontiers of dental education. It also expands Pacific's educational footprint and visibility in San Francisco in the health, technology and arts and culture sectors. New academic programs in analytics, audiology, music therapy and food studies began in fall 2015, and additional new programs will be added in the coming years. Pacific's Sacramento Campus is also expanding, offering exciting academic programs at the intersection of law, policy, business, education and health. Anchored by the McGeorge School of Law, the campus is adding graduate academic programs keyed to the needs of a metropolitan region, charting a bold future. A Master of Science in Law degree is now available through the McGeorge School of Law. New graduate programs in business and education launched in 2015 and new graduate programs in public policy and public administration, physician assistant studies and analytics will begin in 2016 and 2017.

President Eibeck has made community engagement a priority for the university. In 2010, Pacific launched the "Beyond Our

Gates...Into the Community" initiative in order to forge community partnerships that improve lives in our region. As part of Beyond Our Gates, some 50 community partners have united in an effort to improve early literacy. The Beyond Our Gates Reading by Third campaign recently received a grant from The James Irvine Foundation to strengthen early literacy programs in the San Joaquin Valley, while the Beyond Our Gates Community Council, an advisory board comprising local leaders, has garnered national attention. Through the work of the council, San Joaquin County has been designated a Community Pacesetter in the area of early literacy by the Campaign for Grade-Level Reading. San Joaquin County has also been named a GradNation Community by the America's Promise Alliance in recognition of efforts to increase high school graduation rates.

Pacific's schools and programs also serve the community in important ways through health and dental clinics, legal clinics and community service. In the 2014–15 academic year, the Arthur A. Dugoni School of Dentistry provided \$10 million in uncompensated dental care to patients; students at the Thomas J. Long School of Pharmacy and Health Sciences volunteered an estimated 30,000 hours to provide health-related services to the community; the McGeorge School of Law legal clinics provided free services to hundreds of clients; and student volunteers on the Stockton Campus gave more than 7,600 hours of community service.

On July 1, 2013, University of the Pacific rejoined the West Coast Conference. A founding member of the conference, Pacific shares its sister institutions' long tradition in intercollegiate athletics and their dedication to high-quality academics and athletic success.

Pacific continues to enjoy national recognition for its leadership in higher education, consistently ranked among the best national universities and as a "Best Value" by *U.S. News & World Report* and *Princeton Review*. *U.S. News* also ranks Pacific very high (No.15) for ethnic diversity. The Economist and The Brookings Institution have ranked Pacific the No. 3 best value college or university in California. It is among the top 10 schools in the nation whose graduates exceed expected earnings, according to an analysis by the Georgetown University Center on Education and the Workforce.

The university remains deeply committed to its personal, student-centered approach. Faculty and staff are dedicated to excellence in teaching. Close faculty mentoring, a rich blend of liberal arts and professional education, and a broad array of experiential learning activities that prepare students for lasting achievement are hallmarks of the Pacific experience.

SCHOOL AND COLLEGE BANNERS

School and college banners signifying each of the academic units of the University precede a unit's faculty in the procession and are displayed during the ceremony. The color of the banner symbolizes the academic discipline.

College of the Pacific — The golden yellow field of this banner represents the sciences, while the white letters signify the arts and humanities. Founded in 1851, the College of the Pacific is the largest and oldest academic unit.

University Library — This banner's lemon-yellow color represents the library sciences. The Library has supported teaching, learning and scholarship since Pacific's founding in 1851. It is home to many special collections, including the papers of naturalist John Muir and musician Dave Brubeck.

Conservatory of Music — The tradition of representing music with the color pink originated at Oxford University. Pacific's Conservatory, established in 1878, is the first university-affiliated school of music in the West.

Arthur A. Dugoni School of Dentistry — The lilac color of dentistry forms the field for this banner. Founded in 1896 as the College of Physicians and Surgeons, the School became part of the University in 1962. It is named in honor of the alumnus who served as dean of the school from 1978 to 2006.

Pacific McGeorge School of Law — Purple, a color traditionally associated with royalty and governance, represents the law. Named in honor of its founder, Verne Adrian McGeorge, the School opened in 1924 and merged with Pacific in 1966.

Gladys L. Benerd School of Education — The light blue field signifies disciplines related to education. The School is named in honor of the distinguished alumna who bequeathed the school with an endowment. It was founded in 1924 when the University moved to Stockton.

Thomas J. Long School of Pharmacy and Health Sciences — Pharmacy is represented by olive green, a color associated with healing herbs. The School, established in 1955, is named for the benefactor and Regent who, with his brother Joseph, founded Longs Drugs Stores.

Research and Graduate Studies — Red-orange signifies this division, which was established in 1956 as Pacific expanded its graduate degree offerings.

School of Engineering and Computer Science — This banner's orange represents the engineering and computer science disciplines. The School was founded in 1957 from a department that dates to the 1930s.

Eberhardt School of Business — The School's banner features an olive brown field. Founded in 1977, the School was renamed in 1995 in honor of the Eberhardt Family's endowed gifts.

School of International Studies — Peacock blue symbolizes the field of international studies. The School was established in 1987 with a gift from George and Isabelle Wilson.

SIGNIFICANCE OF ACADEMIC REGALIA

Distinctive academic dress can be traced back to the universities of the Middle Ages when university students and faculty wore the robes of the clergy. Today three ranks of degrees are distinguished through variations in the robes, which also indicate the discipline and the university that awarded the degree.

In the United States, gowns generally are black. The color of the edging of the hood and occasionally the color of the facing and crossbars on the doctoral gown indicate the field of learning in which the degree is awarded. The colors of the lining of the hood are those of the institution awarding the degree. Generally, bachelor's and master's tassels are black, and doctoral tassels are gold. After graduation the tassel is worn on the left side of the Mortarboard. An individual's degree is revealed by the type of gown and width of the edging on the hood.

Bachelor's gowns have full, pointed sleeves with no trimming. Hoods have a two-inch edging. Master's gowns prior to 1960 had full, closed sleeves with the arm emerging through a slit at the elbow. In 1960, the gown was modified replacing the elbow slit with an opening at the wrist, and the gown was made to close. Hoods have a three-inch edging. Doctor's gowns are of silk, have rounded sleeves, velvet facing down the front and three velvet crossbars on each sleeve. Hoods have side panels and a five-inch facing.

HISTORICAL SIGNIFICANCE OF THE UNIVERSITY MACE

Originally a weapon used in medieval warfare, the mace evolved by the 12th century into a symbolic device used on ceremonial occasions and borne before monarchs, mayors and parliaments. The mace, as an academic symbol, dates back to the 15th century at the University of St. Andrews in Scotland. The use of maces as symbols of academic authority spread to other universities in the British Isles and from there to America.

Robert E. Burns, Pacific president from 1946 to 1971, asked Stuart Devlin, an internationally-known London silver designer, to create University of the Pacific's mace. It was commissioned in recognition of the University's transition from a college to a university and was first used at a Founders Day ceremony on March 6, 1966. Constructed entirely of silver with a gold plated seal of the University in its head, the mace weighs 15 pounds and is approximately four feet long. It was a gift from Mrs. Winifred Olson Raney, a Regent of the University. The mace is displayed at all official University functions, including Commencement and Convocation. It is traditionally carried by the chair of the Academic Council to symbolize the role of the faculty in university governance.



Pacific Hail!

Words and Music by

Lois Warner Winston '23, '58

*From o'er the rugged mountains
standing high;*

*From out the broad low valleys,
'neath the sky;*

Our alma mater calls, we cannot fail,

Our voices blend in praise,

Pacific Hail! Pacific Hail!

Long may her flaming torch give out its light;

Long may her spirit guide us in the right;

To her we pledge our hearts,

We dare not fail;

To her we raise our song,

Pacific Hail! Pacific Hail!



School of Engineering and Computer Science

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