

1962



*Ninety-Third Annual  
Commencement*

*Oregon State University*

SUNDAY AFTERNOON, JUNE THIRD  
NINETEEN HUNDRED SIXTY-TWO  
COLISEUM, ONE O'CLOCK

# The Order of the Academic Processions

E. D. Smith, Chief Marshal

## *Processional—*

The President and Official Guests  
The Administrative Council  
The Faculties  
The Candidates for Advanced Degrees  
The Class of 1962

## *Recessional—*

The order of the Recessional is the reverse of the Processional, the Class of 1962 marching first and the President of the University last.

# The Colors Distinctive of the Schools

Tassels of caps of candidates for degrees are in colors distinctive of the schools according to the Academic Costume Code.

The Graduate School .....	Black
The School of Humanities and Social Sciences ....	White
The School of Science .....	Golden yellow
The School of Agriculture .....	Maize
The School of Business and Technology .....	Drab
The School of Education .....	Light blue
The School of Engineering .....	Orange
The School of Forestry .....	Russett
The School of Home Economics .....	Maroon
The School of Pharmacy .....	Olive green

# Program

## PRELUDE

Thomas Roberts at the Organ

Selections

## PROCESSIONAL

Coronation March . . . . . *Meyerbeer*

Pomp and Circumstance . . . . . *Elgar*

March of Homage . . . . . *Liszt*

Oregon State University Concert Band  
Ted Mesang, Conductor

The audience will remain seated throughout the processional but will rise when the Colors enter the auditorium and will remain standing until after the Invocation and posting of the Colors.

## THE NATIONAL ANTHEM

## INVOCATION

William Francis Unsoeld, Ph.D.  
Assistant Professor of Philosophy, Oregon State University

## GREETINGS

John Merrifield, L.H.D.  
Member, State Board of Higher Education

## CONFERRING OF BACCALAUREATE DEGREES

President James H. Jensen, Ph.D.

ALMA MATER . . . . . *Homer Maris, M.S. '18*

The audience is invited to rise and join in the singing of the Alma Mater

## PRESENTATION OF BACCALAUREATE DIPLOMAS

## CONFERRING OF ADVANCED DEGREES

President Jensen

## OATH OF OFFICE

For newly commissioned officers of the U. S. Army, U. S. Navy, U. S. Marine Corps, and U. S. Air Force in the graduating class.

## RECESSIONAL

Upward and Onward . . . . . *Ted Mesang*  
Concert Band

After the Colors have been carried from the auditorium, everyone except the military will be seated during the Recessional





# Senior Honors

June 1962

Senior honors are conferred by the Faculty Council on those members of the graduating class, candidates for a bachelor's degree, who throughout their entire college course have maintained the highest scholastic standing in their respective schools. A student to be eligible for such honor must have made a grade-point average of 3.25 or higher. Election is limited to ten percent of the graduating members of a school.

## HUMANITIES AND SOCIAL SCIENCES

Jeanne Beverly Hawley  
Wayne Eugene Tonack

Patricia Jo McQuaid  
Karen Johnson

Myron Harry Nordquist

## SCIENCE

Barbara Suzanne Goeller  
Daniel Richard Grischkowsky  
Charles Donald Baker  
Dale Leroy Harmer  
Bruce Rae Johnson  
Elizabeth Alt Strauch  
Wayne Verlin Roberts  
Elizabeth Ann Bogart  
Burton George Bennett

Stuart Ames Eide  
Frank Alan Schmittroth  
Mary Elizabeth Sather  
Nancy Elizabeth Vertrees  
Merwyn Claire Powell  
Gail Jeannette Woosley  
Anne Louise Hofmann  
Clyde Baldwin Kernek  
Daniel William Lozier

John Stuart McAlpine  
Myrna June Pershall Smith  
David Marcel Hite  
Richard Allen Bartsch  
Gerald Iven Findley  
Victor Alan Mullett  
Donna Irene Dibblee  
James Ernest Cathey  
Walter Edman Powers

## AGRICULTURE

Donavin Adair Leckenby  
Johanna Marie Landsberg

Stuart Alan Couper  
Donald Lee Brockway  
Myron Ellis Miles

John David Fortune, Jr.  
Douglas Bird Gilson

## BUSINESS AND TECHNOLOGY

Ernestine Harriett Sherman  
Nancy Gue Adams  
Helen Louise Murray  
Joseph Martin Teeter  
James Robert Morrow  
Susanne Mineko Sasaki

Merwyn Claire Powell  
Michael Shera Kline  
Joan Mildred Dolby  
Donald Hall Risk  
John Sidor Mendicino  
Judith Dianne Atwood

Sheila Marie Miles  
Barbara Ann Cole  
Patricia Ann Carroll  
Lawrence Andrew Petersen  
Sue Mary Briggs

## EDUCATION

Judy Ann Ullmann Hockett  
Karen Maurine Sinclair  
Judith Ann Baker  
Ann Katherine Mullaney  
Dalton Gene Plunkett  
Margaret Ann Williamson  
Brian Richard Busch  
Judy Marie Robare

Christine Ann Long  
Peter Max deLaubenfels  
Helen Dyer Hemingway  
Mavis Louise Malbon  
Norma Lou Willard  
Martha Anna Tubach  
Carlene Frances Hise  
Keith Bernard Snyder  
Judith Christine Snyder

Kathleen Sullivan  
Janet Pattie Mann  
Joan Lee Kallberg  
Janet Elizabeth Fisher  
Reba Jo Nelson  
Tom Alvin Stone  
Keith Arnold Mobley  
Susan Baumgartner

## ENGINEERING

Grayson Theodore Alexander  
Charles Donald Baker  
Dale Edward Fisk  
Warren Lewis Dalziel  
Roger Edward Holtz  
Ronald Eugene Murphy

William Hooper Brown  
Bruce Alan Tichenor  
Keith Leroy Hull, Jr.  
Clifford Wayne Hunter  
Guy Alan Armantrout  
Kenneth Frederic Weleber

Richard Stowell Reid  
Richard Lewis Kelly  
Gary Manford Buford  
Charles Edward Buxton  
Scott Heim McKean  
Grant Thomas Morgan

## FORESTRY

Lawrence Richard Cron

William Durham Platt

Russell Grover Dix

## HOME ECONOMICS

Leona Gwen Connarn  
Barbara Kay Altpeter  
Charlotte Karen Imes Fox

Beverly Jean Bower  
Jean Louise Penrose  
Susan Margaret Smith

Jenny Louise Bartells  
Janet Lou Jones

## PHARMACY

David Bishop Bell

Darlene Shizuye Tamura  
Carol Katsuko Hisatomi

John Leonard McGonegal



# Baccalaureate Degrees

Oregon State University, on the basis of studies pursued in its undergraduate schools, confers the following baccalaureate degrees:

Bachelor of Arts (B.A.)	Bachelor of Science (B.S.)
Bachelor of Agriculture (B.Agr.)	Bachelor of Education (Ed.B.)
Bachelor of Forestry (B.F.)	

## Liberal Arts and Sciences

The undergraduate curricula in the liberal arts and sciences at Oregon State University are offered through the School of Humanities and Social Sciences and the School of Science.

### School of Humanities and Social Sciences

Ralph Colby, Dean

The School of Humanities and Social Sciences offers divisional majors in Humanities and in General Social Science. Students who elect a major in one of these fields take a minor in the other and also a minor in science or science-technology.

#### BACHELOR OF ARTS

Elisabeth Jean Blanchard, Portland	John Beeler Jones, Dixon, California
Richard Norman Colby, Corvallis	Anne Pennington Lee, Honolulu, Hawaii
Carolyn Connell Creighton, Boise, Idaho	Patricia Jo McQuaid, Portland
James Robert Dodge, Eugene	Judith Ann Martin, Portland
Charlotte Ann Donaldson, Oregon City	Diehl Ingersoll Pyfer, Corvallis
Carole Anne Doty, Coos Bay	Sheila Sue Richmond, Imbler
Kathryn Grace Catlow Erickson, Corvallis	Sandra Jean Rosenberg, Corvallis
	Leslie Anthony Williams, Milwaukie

#### BACHELOR OF SCIENCE

George Tewfic Abed, Ramallah, Jordan	Jerome Jess Jacoby, Portland
Carol Anne Bewley, Beaverton	Florence Elizabeth Johnson, Corvallis
Dennis Guy Ciocca, Kentfield, California	Karen Johnson, Medford
Sheila Gay Couey, Medford	Ronald Vaclav Kalina, Malin
Gary Ray Edelbrock, Seattle, Washington	David Conrad Klick, Corvallis
Merlyn Monroe Gubser, Corvallis	Alan John Klockars, San Francisco, California
Gilbert Warner Haith, Corvallis	LeRoy Emmett Larson, Bend
Robert Charles Hatton, Philo, California	Terry Allen Lehman, Bend
Jeanne Beverly Hawley, Portland	Carol Jean Lindbloom, Roseburg
Margaret Dean Healy, Hampton, Virginia	Dean Lee McCargar, Drain
Michael Gordon Heath, Corvallis	Roderick Dean Martindale, Bandon
John Howard Horn, Bonanza	Norman Whitfield Monroe, Washing- ton, D. C.
Glyndon Ruth Hunter, Medford	Chester Leroy Moran, Corvallis
John Lewis Jacobson, North Powder	Myron Harry Nordquist, Kalispell, Montana
	Hugh Phillips, Corvallis



Darrell Lee Ross, Medford  
Valarie Dean Rousselle, Portland  
Jeannette Paula Ryan, Portland  
Julia Mary Rycraft, Corvallis  
Thomas Osborne Schooley, Home-  
wood, Illinois  
Susan Jean Schwabe, Oswego  
William Martin Sissel, Albany

Wayne Eugene Tonack, Albany  
Philip Robert Tramontano, Whittier,  
California  
Donald Edward Uppendahl, Corvallis  
Michael Hugh Vidos, Pittsburgh,  
Pennsylvania  
Siegfried Adolf Vogt, Vohenstrauss,  
Germany

## School of Science

Francois Archibald Gilfillan, Dean

The School of Science provides majors in the biological and physical sciences and mathematics for students who desire a liberal education or preparation for advanced study in science. Undergraduate majors are offered in general science, botany, chemistry, engineering physics, entomology, geology, mathematics, microbiology and hygiene, natural resources, physics, science education, and zoology. Preprofessional preparation is also offered in dentistry, medicine, veterinary medicine, medical technology, dental hygiene, and nursing.

### BACHELOR OF ARTS

David Elam Amstutz, Gresham  
Elvis Gordon Barker, Salem  
\*Richard Allen Bartsch, Pendleton  
\*Burton George Bennett, Pasco,  
Washington  
Richard James Bjelland, Woodburn  
Susan Marie Boennighausen, Tigard  
\*Bonnie Jean Bosco, Portland  
James Ernest Cathey, Fresno,  
California  
James Franklin Conley, Ashland  
\*Ronald Rex Dueltgen, Portland  
Verene Cheldelin Finley, Corvallis  
Joanne Frances Gruen, Portland  
\*Stephen Michael Henning, Portland

Anne Louise Hofmann, Portland  
\*Robert Stanley Jenkins, Portland  
Gerald Eddy Kelley, Corvallis  
Elmer Fred Kerstan, San Francisco,  
California  
Daniel William Lozier, Portland  
John Stuart McAlpine, Portland  
\*Walter Edman Powers, Milwaukie  
Karl Clair Rautenkranz, Salem  
Elizabeth Alt Strauch, Corvallis  
Steve Blake Tabacchi, Salem  
Judith Kathryn Wilcox, Milwaukie  
Carolyn Jean Woodring, Corvallis  
Gail Jeannette Woosley, Corvallis  
Linda Ann Wright, Ashland

### BACHELOR OF SCIENCE

William Leonard Abbott, Portland  
Jeannette Adams, Sacramento,  
California  
Lyle Wilkes Ager, La Grande  
Arthur Grayson Albin, Corvallis  
John Raymond Arnold, Albany  
Lowell Erskine Austin, Jr., Prineville  
Philip Emil Backman, Coos Bay  
John Michael Baird, Pendleton  
Charles Donald Baker, Boise, Idaho  
Gilbert Arthur Baker, Klamath Falls  
Steven Michael Baker, Tucson,  
Arizona  
Virginia Dale Ballew, Springfield  
Maurice Ray Banning, Albany  
Elvis Gordon Barker, Salem  
Ramon Murray Barnes, Portland

Everett Eugene Barnett, Jr., Drain  
Alfredo Benjamin Barrera, Laredo,  
Texas  
Jose Miguel Bedregal, Seattle,  
Washington  
Robert Edward Bell, Union  
Burton George Bennett, Pasco,  
Washington  
Laurence Arthur Bissonnette, Winston  
Linda DeAnna Bjork, Astoria  
Elizabeth Ann Bogart, Corvallis  
Maurice Leonard Bregel, Coos Bay  
Larry William Brindley, Portland  
Michael Henry Brooks, Long Beach,  
California  
William Neal Brooks, Lemoore,  
California

\* HONORS PROGRAM, School of Science.

Helen Elise Brown, Homedale, Idaho  
 Manulita Angela Brown, Bedford,  
 Virginia  
 Gordon Allen Brynildsen, Boise, Idaho  
 John Rodrigues Bugado III, Hilo,  
 Hawaii  
 \*Sandra Kay Buxton, Medford  
 Peter Duane Carpenter, Encinitas,  
 California  
 James Arnold Carruthers, Warrenton  
 William Lyle Carson, Junction City  
 Russell Joseph Carter, Adams  
 Wallace Duane Cegavske, Albany  
 Edward Cecil Chapman, Glide  
 Vernon Leroy Chaussé, Corvallis  
 Byron Earl Christianson, Corvallis  
 Gary Hung Fong Chun, Honolulu,  
 Hawaii  
 Charles Garry Clark, Olympia,  
 Washington  
 Lance Woody Clifford, Portland  
 James Anthony Coats, Oswego  
 James Charles Condit, Forest Grove  
 Carolyn Anne Corn, Balboa, Canal  
 Zone  
 Charles Edward Coyle, Medford  
 Douglas Craig, Salem  
 William Francis Cummins, Jr.,  
 Corvallis  
 Richard Lee Curtis, Portland  
 William Willis Curtis, Enterprise  
 Alton Clifford Davis, Portland  
 Donna Irene Dibblee, Portland  
 Kenneth Burdette Dockter, Laramie,  
 Wyoming  
 Daniel Guy Dougherty, Corvallis  
 Richard William Drosman, Saint  
 Helens  
 David E Dunahay, Eugene  
 \*Stuart Ames Eide, Grants Pass  
 Richard Allen Ellerby, Portland  
 Donald Fawn, Bakersfield, California  
 James Douglas Fearl, Portland  
 Hubert Nelson Field, Bend  
 Gearld Iven Findley, Junction City  
 Nolan Jack Fontenot, Tucson, Arizona  
 Eleanor Gay Ford, Ontario  
 Clyde Eugene Forney, Jr., Albany  
 Raymond Noel Fowler, Albany  
 Dale Marion Gallaher, Corvallis  
 James Marcus Galyen, Hollydale,  
 California  
 Michael Barr Gathercoal, Corvallis  
 David Lee Gifford, Medford  
 Barbara Suzanne Goeller, Klamath  
 Falls  
 David Eugene Gooding, Klamath Falls  
 Norman Roy Goodman, Palmer,  
 Alaska  
 Carl Wilson Gregory, Anaheim  
 California  
 Daniel Richard Grischkowsky,  
 Corvallis  
 Richard Jonas Groves, Sweet Home  
 Jerry Ralph Grunwald, Camino,  
 California  
 Sterling Haaland, Inverness, Montana  
 \*Keith Robert Hacker, Portland  
 Kenneth Lee Haffner, Junction City  
 Michael Keith Hanson, Newport  
 Dale Leroy Harmer, Empire  
 Thomas Otto Harris, Corvallis  
 Ward Edwin Harris, Corvallis  
 Larry Russell Hart, Corvallis  
 Loren Silver Hassett, West Linn  
 Ernest Mitsuru Hayase, Honolulu,  
 Hawaii  
 Gloria Margaret Heath, Vale  
 Peter Henry Heidrich, Oakridge  
 Elizabeth Ann Hendricks, Glendale,  
 California  
 Stephen Michael Henning, Portland  
 Malcolm George Henwood, Corvallis  
 Martin Stephen Hillman, Jr., Grants  
 Pass  
 David Marcel Hite, Sherwood  
 Charles Clinton Hoeflein, Jr., Eugene  
 Robert Leo Holland, Oceanlake  
 Chin Shing Hoo, Medan, Indonesia  
 Ronald Carden Hopkins, Sierra Madre,  
 California  
 Richard Robert Hornby, San Bernar-  
 dino, California  
 Edward LeRoy Howard, Pendleton  
 Duane Leroy Hug, Corvallis  
 Edwin William Hug, Elgin  
 John Emery Huntington, Ontario,  
 California  
 Richard Palmer Hyslin, Portland,  
 Oregon  
 Glenn Winfield Ireland, Oswego  
 Jimmie Dean Jackson, Portland  
 \*Bruce Rae Johnson, Scappoose  
 Ernest Willburn Johnson, Jr., Valsetz  
 John Robert Johnson, Hillsboro  
 Richard Dwight Johnson, Astoria  
 Wilton Howard Johnson, Centralia,  
 Washington  
 James Lee Jones, Corvallis  
 Carol Ruth Keema, Sacramento,  
 California  
 Lynn Clifford Kehrl, Portland

\* HONORS PROGRAM, School of Science.



William Henry Kelley, Jr., Fresno,  
 California  
 Byron Ralph Kemp, Vancouver,  
 British Columbia, Canada  
 Stuart Oscar Kendall, Corvallis  
 Clyde Baldwin Kernek, Corvallis  
 Thomas Lee Ketsdever, Albany  
 Diana Jane Klippel, Corvallis  
 Julia Ann Kennedy Krackov, Corvallis  
 John Helge Kvam, Tacoma  
 Ralph Robert Laing, Pendleton  
 Muriel Lamb, Walnut Creek,  
 California  
 Gary Dennis Lape, Cordova, Alaska  
 Harold Alvin Legard, Silverton  
 Alexander Fu-Iu Liu, Tainan, Formosa  
 Robert George Lowe, Livermore,  
 California  
 Charles Robert Mansfield, Grants Pass  
 Ronald Harold Mantei, Milwaukie  
 Christopher Ottmar Maser, Corvallis  
 Robert Lee Matthews, Roseburg  
 Denny Lavern May, Hermiston  
 William Cooper Mayes, Corvallis  
 Bruce Roger Meland, Silverton  
 Ronald Wayne Miller, Eugene  
 Dianne Louise Mollidre, Lake  
 Oswego  
 Errol Lee Montgomery, Roseburg  
 Baxter Steely Moore, Jr., Corvallis  
 Joe Woodside Moore, Corvallis  
 William Junior Morgenstern, Salem  
 Victor Alan Mullett, Albany  
 Malin Marie Babcock Murray, Juneau,  
 Alaska  
 Phillip Arnold Nickel, Corvallis  
 Richard Allen Nixon, Lebanon  
 Jack Trask Norton, Jr., Myrtle Creek  
 Michael Guy O'Mara, Portland  
 Steven John Oliva, Rainier  
 Carol Lee Olson, Portland  
 Carl Christian Ostling, Waldport  
 Denys Dale Overholser, Dallas  
 Marne Leon Palmateer, Portland  
 John David Pembroke, Union  
 James William Pero, Salem  
 Forrest Nelson Pickett, Portland  
 Judith Ivone Pittam, North Bend  
 David Albert Plant, Corvallis  
 Richard Paul Porter, Lakeview  
 Edward Robert Powell, Terrebonne  
 Merwyn Claire Powell, Lebanon  
 Donald James Puro, Albany  
 Philip E Ramazzina, Redwood City,  
 California  
 Bruce Mitchner Reed, Corvallis  
 Conrad Fred Reinmiller, Klamath  
 Falls  
 Paul Robert Reussille, Jr., Little  
 Silver, New Jersey  
 Don Richard Reynolds, Portland  
 James Earl Rich, Albany  
 David Wayne Robare, Corvallis  
 Gilbert Leon Roberts, Salem  
 Melissa Anne Roberts, Glendale,  
 California  
 Wayne Verlin Roberts, Sweet Home  
 David Daniel Rogers, Portland  
 Jay Giovanni Romiti, Garden Grove,  
 California  
 Patricia Gayle Rynerson, Bellevue,  
 Washington  
 Howard Andrew Salman, Boise, Idaho  
 Donald Douglas Sams, Hermiston  
 Mary Elizabeth Sather, Hillsboro  
 Sally Ann Saxton, Corvallis  
 Richard Gale Schluter, Pendleton  
 Robert Howard Schmidt, Jr., Whittier,  
 California  
 \*Frank Alan Schmittroth, Kellogg,  
 Idaho  
 Robert Leroy Sheldon, Beaverton  
 Melvin Lee Shourd, Maplewood,  
 Missouri  
 Steven Michael Skidmore, Portland  
 Myrna June Pershall Smith, Brogan  
 William O Spencer, Albany  
 Elgar Earl Stephens, Madras  
 Robert Edward Still, Corvallis  
 Cheryl Jean Stine, Whittier, California  
 Frederick Douglas Stover, Homestead  
 Harry Marvin Strauss, Los Angeles,  
 California  
 Lowell Lo Wai Sue, Honolulu, Hawaii  
 Thomas Elbert Sutherland, Pilot Rock  
 Susan Rachel Swink, Lebanon  
 Donald Masaru Takeuchi, Oloa,  
 Hawaii  
 Kazumi Tamekuni, Kealakekua,  
 Hawaii  
 Frank Ephraim Thomas, Portland  
 Harold Gene Thornton, Sacramento,  
 California  
 John Avery Turner, Walnut Creek,  
 California  
 Marvin L Tyler, Lakeview  
 Robert David Van Houten, Union  
 Ove Frederik Van Jepmond, Corvallis  
 Nancy Elizabeth Vertrees, The Dalles  
 James Alfred Wallin, Gaston  
 William Earl Warren, Jr., Hillsboro  
 William Duane Watkins, Corvallis  
 John Allen Weigant, Milwaukie

\* HONORS PROGRAM, School of Science.



Gary George Welch, Tracy, California  
Larry Willis Well, Corvallis  
Dennis Jay Wellman, McCloud,  
California  
Samuel Jeffrey Wells, Sacramento,  
California  
Linda Kay Welp, Olex  
Joseph David Wendlick, Portland  
Suk Jo Whang, Los Angeles, California  
Jerald Clinton Whitsett, Corvallis  
William Grant Wiegman, Eugene

William Robert Williams, Klamath  
Falls  
John Richard Wilson, Corvallis  
James Wong, Watsonville, California  
Joseph Frederick Wood, Portland  
Wallace Fred Wooden, Powers  
Judith Ann Woodruff, Klamath Falls  
Tom Bryan Woolcott, Portland  
Gail Jeannette Woosley, Corvallis  
Gerry Donald Wright, Albany  
Young Mok Yun, Taegu, Korea

## School of Agriculture

Frederick Earl Price, Dean

The School of Agriculture offers major curricula with options in agricultural science, agricultural business, and agricultural technology. The main fields within the school are: agricultural economics, agricultural education, animal science, farm crops, fisheries, food science and technology, horticulture, mechanical technology in agriculture, poultry technology, range management, soils, and wildlife management.

### BACHELOR OF SCIENCE

Woodrow Lee Abraham, Halsey  
Wilbur Carl Anderson, Hood River  
Paul Hiroshi Arakawa, Paauilo,  
Hawaii  
Roger Allen Ayres, Salem  
Roland Coe Barnard, Hood River  
Michael Morris Bauer, North Bend  
Michael Dennis Bengé, Ione  
James Henry Beyer, Woodburn  
Alan Lee Boyer, Salem  
Donald Lee Brockway, Redwood City,  
California  
Overton Glen Bruce, Aumsville  
Donald Harry Burkhardt, Vale  
Donald Roy Byers, Corvallis  
William Coleman Case, Albany  
John William Chandler, Salem  
Thomas Scott Clevenger, Corvallis  
William Foster Clyde, Salem  
Amos Ben Conrad, Tangent  
Milton Marcus Cook, Jr., San Fran-  
cisco, California  
Stuart Alan Couper, Gervais  
Anthony Peter Crudele, Corvallis  
John Chenoweth Cuthbert, La Grande  
Michael Lee Dahlberg, Beaverton  
William Francis Daniel, Echo  
Ronald DeWayne Daugherty, Corvallis  
Ernest Louis Davis, Jr., Corvallis  
Artemio Delos Reyes, Waipahu,  
Hawaii  
Darrell Eugene Demory, Astoria  
Daniel Bentley Dunham, Lakeview

Val J Dutson, Corvallis  
Russell David Earnest, El Cajon,  
California  
John Richard Edgington, Roseburg  
James Franklin Enger, Salem  
John Marshall Ferguson, Roseburg  
James Lawrence Fessler, Corvallis  
Kenneth Wayne Findley, Portland  
Richard Joseph Fisher, Corvallis  
John David Fortune, Jr., Tigard  
Richard Dee Giger, Canby  
Douglas Bird Gilson, Camas,  
Washington  
James Benton Glenn, Turner  
Edwin Louis Gustafson, The Dalles  
John Richard Haake, Willamina  
George Frank Hamlin, Madras  
Robert Edwin Harrison, Panama,  
Republic of Panama  
James Maurice Heater, Sublimity  
David Lee Heyman, Albany  
Kenneth Stephen Hilderbrand, Jr.,  
Albany  
Edgar Stickley Hoak III, Corvallis  
Clarence Norman Hunt, Jr., Maupin  
Richard Gilbert Jack, Carlton  
Larry Boyd Jennings, Oakridge  
William Paul Jeskey, Aurora  
Thomas Clair Juelson, Kodiak, Alaska  
Darrel Leroy Kauffman, Lebanon  
Larry Edward Kegg, Corvallis  
David Bruce Keir, Hood River  
John Michael Kirsch, Saint Paul

Paul Lucien Krahenbuhl, Corvallis  
Stanley Wayne Kubik, Bloomfield,  
New Jersey  
Johanna Marie Landsberg, Corvallis  
Donavin Adair Leckenby, Corvallis  
Robert Thomas Lewellen, Vale  
Thomas Wayne McGowan, Pendleton  
Jerry Tadashi Matsunaga, Nyssa  
Jack Elliott Melland, Philomath  
Larry Stanford Merrifield, Saint  
Helens  
Kenneth Collver Messerle, Coos Bay  
LeRoy Carl Meyer, Creswell  
Ray Tetsuo Michimoto, Lahaina,  
Hawaii  
Robert Joseph Mihan, San Francisco,  
California  
Keith Wayne Miles, Corvallis  
Myron Ellis Miles, Baker  
James Culver Miller III, Medford  
Don Clayton Miner, Hillsboro  
William George Mullarkey, Glendale  
Thomas Haruo Nagata, Lahaina,  
Hawaii  
Melvin Theodore Nail, Corvallis  
Donald Lee Nash, Salem  
Robert Eugene Orser, Sedro Woolley,  
Washington  
David Alan Pahl, Pendleton  
Merle Albert Peters, Corvallis  
L Denzil Porter, Corvallis  
Joel Jenner Pynch, Corvallis  
Donald DeWayne Randol, Newberg  
Ralph Reid, Jr., Grand Ronde  
Erlend Albert Reitan, Kent, Wash-  
ington  
Joseph Thaddeus Riker III, Klamath  
Falls  
Robert Allen Rohland, Salem  
William Herbert Root, Wasco  
Harvey Frederick Rose, Lebanon  
Roger Lee Rutherford, Kelso,  
Washington  
Gary Lee Schneider, Sherwood  
Richard Allen Schwabauer, Hubbard  
Peter Alan Schwabenland, Tulelake,  
California  
Manmohan Singh Sehgal, Corvallis  
Michael Fredrick Seppa, Astoria  
Donald Lee Siedelman, Vernonia  
James Milton Simpson, Mountain  
View, California  
Stanley Lee Sisson, Nyssa  
Carl Hamilton Skyrman, Corvallis  
Gary Eugene Smith, Brogan  
John Franklin Stennick, Rainier  
Marshall Colter Stevens, Arcadia,  
California  
Alan Roy Stevenson, Madras  
Julius Szabo, Corvallis  
Allen Douglas Taylor, Lakeview  
Dennis LeMoyn Toline, Silverton  
John Rathbone Tripp, Rocky River,  
Ohio  
Monte Cornelius Vandehey, Cornelius  
Richard Albert VanDeusen, Gresham  
George Hiroyuki Wachi, Paauhau,  
Hawaii  
George Wright Warren, Warrenton  
Russell Henry Wickwire, Oakland,  
California  
James Monroe Wightman, Heppner  
Theodore Will, Yachats  
Duane David Wilson, Scotts Mills  
Kenneth Lee Witty, Corvallis  
David Edward Worden, Portland  
Larry Gene Wrolstad, Molalla  
James Guy Youde, Grants Pass  
Franklin Robert Young, Portland

## School of Business and Technology

Clifford Elges Maser, Dean

The School of Business and Technology offers major work in general business and industry, industrial accounting and cost control, industrial finance, production management, industrial marketing and selling, industrial relations and personnel management, and agricultural business management. A technical minor is required to accompany each major. The school also offers curricula in business education and secretarial science.

### BACHELOR OF ARTS

Crisologo Redondo Campos, Badoc,  
Philippines  
Dwight Edward Fletcher, Hillsboro  
Vivian E Locker, Milwaukie  
Norma Jean Lyon, Olene  
Jo Ann Perry, Portland  
Kathryn Irene Poling, Corvallis  
Ernestine Harriet Sherman, Clatskanie  
Tsutomu Sunahara, Kanagawa, Japan  
Sylvia Jean Wilcox, Lebanon



BACHELOR OF SCIENCE

Nancy Gue Adams, Medford  
 Thomas James Allen, Portland  
 Stephen Frank Altick, Berkeley,  
 California  
 George Noel Arthur, San Mateo,  
 California  
 Judith Dianne Atwood, Sheridan  
 Rex Allen Baggett, Hermiston  
 Charles Steven Bally, Portland  
 Carolyn May Baron, Newberg  
 Richard Thomas Barry, Corvallis  
 Gerald Ray Beachell, Portland  
 John Parke Beardsley, Corvallis  
 David Anthony Bell, Salem  
 John Anthony Benvenuto, Encinitas,  
 California  
 Anthony DeGray Birch, Gresham  
 Ronald Orb Boeckler, Westminster,  
 California  
 John Wilber Wernex Bogue, San  
 Gabriel, California  
 Barbara Ann Bozanich, Astoria  
 Barry Frederick Branin, Portland  
 Susan Mary Briggs, Portland  
 Thomas Edward Brown, Salem  
 Gerald Albert Brunelle, Salem  
 Richard Aaron Bryant, Portland  
 Floyd Wayne Buck, Klamath Falls  
 Robert Paul Buckthal, Alexandria,  
 Virginia  
 Edward Loren Cantrall, Medford  
 Charles Edward Carlson, Concord,  
 California  
 Patricia Ann Carroll, Klamath Falls  
 Richard Washburn Chambers, Han-  
 ford, California  
 Robert Wesley Chui, San Francisco,  
 California  
 Dale Walker Church, Eugene  
 Gerald Lee Clayton, Corvallis  
 Coralene Ruth Cochran, Coquille  
 Barbara Ann Cole, Portland  
 Henry Augustus Collin III, Cutler,  
 California  
 Rick Raymond Colver, Medford  
 James Bailey Cone, Longview,  
 Washington  
 Linda Marie Conley, Portland  
 Roland Ardell Cook, Grants Pass  
 John Franklin Cooper, Jr., Salem  
 Melvin Lester Cooper, Portland  
 Richard Wayne Crisler, Newport  
 John Edward Crouter, Union  
 Henry Dalton Crowhurst, Yuba City,  
 California  
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 James William Walker, Portland  
 Richard Arvin Walker, Dexter  
 Beau Christopher Weill, Long Beach,  
 California  
 Kenneth Frederic Weleber, Oregon  
 City  
 John Robert Wessels, Corvallis  
 Clarence Paige Westwood, Jr., Albany  
 Daniel Malone White, Corvallis  
 Thomas Francis Wieskamp, Medford  
 Richard Lee Woodard, Coos Bay  
 Gary Lee Woodworth, Corvallis  
 Gerry Donald Wright, Albany  
 Kenneth James Wright, Portland  
 Benjamin Locy Yee, Chihuahua,  
 Mexico  
 Isaac Zafrani, Panama, Republic of  
 Panama  
 Lyl Stringham Zaugg, Union  
 Jon Howard Zurcher, Portland

## School of Forestry

Walter Fraser McCulloch, Dean

The School of Forestry offers major curricula in the following fields: for-  
 est engineering, forest management, and forest products.

### BACHELOR OF SCIENCE

Clay Baxter, Larkspur, California  
 Larry Donald Bishop, Elkton  
 Robert Alton Boyd, Boise, Idaho  
 William Forest Boyd, Boise, Idaho  
 Richard Scott Bringham, Stayton  
 Dennis John Caird, Corvallis  
 John Douglas Canatsey, Corvallis  
 Gerald Lee Clayton, Corvallis  
 Walter Dale Cowan, Springfield  
 Lawrence Richard Cron, Libby,  
 Montana

Robert Edwin Crunkilton, Ashland,  
 Ohio  
 David Westley Dahl, Aumsville  
 Cecil Alfred Dewing, Albany  
 Russell Grover Dix, Portland  
 Allan Harold Doerksen, Denair,  
 California  
 Donald Hugh Doyle, Roseburg  
 James Kenneth Fuller, Merced,  
 California  
 Gene Bruce Gary, Corvallis

John Fredrick Girt, Clatskanie	Dennis Arthur Payne, Sherwood
Lewin Roland Gordon, Corvallis	Donald Wayne Pierce, Corvallis
Charles Bernie Hammerstad, Corvallis	William Durham Platt, Portland
Arnold Bernell Harmsen, LaMoure, North Dakota	David Michael Price, Corvallis
Richard William Hemingway, Bend	Darryl Curtis Ray, Salem
Rowan Carl Hinds, Ukiah, California	Paul Anthony Rich, Santa Cruz, California
LeRoy Curtis Johnson, Corvallis	Howard Foskett Rogers, Portland
Richard Forrest Kelly, Klamath Falls	James August Sanderson, Corvallis
Kenneth David Kleiber, Gresham	John Schuller Shelton, Corvallis
Samuel Wallace Lee, Corvallis	Jerry Lynn Smith, Brookings
John George Lindner, Milwaukee, Wisconsin	Frank Wagner Snell, Altadena, California
Fred Gilbert Malroy, Richmond, California	Norman Earl Spangenberg, San Anselmo, California
Gary Duane Manners, Corvallis	William Sidney Strange, Greensboro, North Carolina
Glenn Martin More, Redding, California	John Joseph Tobin, Jr., West Linn
Leland Lee Myers, Corvallis	Charles Kenichi Wakida, Volcano, Hawaii
Steven Peter Ness, Eugene	George Edward Ward, Corvallis
Tobias Ivo Notenboon, Roseburg	John Frederick Wilkens, Portland
Robert Emmett O'Leary, La Grande	Lawrence Jean Wright, Medford
Larry Neil Oatney, Corvallis	George William York, Montour, Idaho
Jerry Carl Olson, Cherry Grove	
Orin Francis Palmer, Unity	

## School of Home Economics

Miriam Grosser Scholl, Dean

The School of Home Economics prepares students for the responsibilities of homemaking and for professional work. Fields of study include clothing, textiles, and related arts; family life and home administration; foods and nutrition; home economics communications; home economics education; home economics extension; home economics in social work; and institution management.

### BACHELOR OF ARTS

Barbara Alis Seibert, Martinez, California

### BACHELOR OF SCIENCE

Barbara Kay Altpeter, Ventura, California	Nancy Dell Davidson, Portland
Joyce Margaret Aune, Milwaukie	Jane Elizabeth Ellis, Sweet Home
Myrna Lottie Azar, Portland	Deanna Dolores Epps, Hillsboro
Geneva Barnes, Corvallis	Susann Farrell, Portland
Jenny Louise Bartells, Menlo Park, California	Barbara Burkett Farring, Corvallis
Carolyn Jane Bergen, Coos Bay	Charlotte Karen Imes Fox, Corvallis
Margarette Alyce Blackburn, Albany	Gloria Jean Hachler, Weiser, Idaho
Beverly Jean Bower, Junction City	Naomi Ruth Hall, Yuba City, California
Verna Mae Buerge, Albany	Patricia Ann Hansen, Pendleton
Rosalie Caldwell, Klamath Falls	Dorothy Mae Hixson, Juneau, Alaska
Rosa Lee Cary, Nyssa	Margaret Frances Hobbble, Barstow, California
Mary Louise Cline, Milton-Freewater	Linda Horton, Corvallis
Leora Gwen Connarn, Portland	Janice Eileen Jaross, Hillsboro
Elizabeth Arlene Cooper, Los Angeles, California	Janet Ann Johnson, Junction City
	Janet Lou Jones, McMinnville



Kathryn Carol Kangas, Salem  
 Diane Loreen Karker, Portland  
 Lois Maxine Kauffman, Corvallis  
 Janet Ethel Kirk, Corvallis  
 Pearl Satoko Kishimoto, Hilo, Hawaii  
 Sonya Ann Lea, Medford  
 Maralyn Grace Lewis, Burton,  
 Washington  
 Elisabeth Lois McBride, Portland  
 Marilyn Jeanette Macy, Madras  
 Antoinette Mary Maes, Portland  
 Jeraldine Jo Markee, Anchorage,  
 Alaska  
 Gayle Estelle Mitchell, Creswell  
 Carol Esther Mowe, Astoria  
 Darleen Mae Naismith, Forest Grove  
 Carol Ann Neilson, Grants Pass  
 Patricia Lee Oglesby, Brooks  
 Sharon Mae Parker, Ogden, Utah  
 Mary Hilda Parrish, Coquille  
 Marilyn Jean Parsons, Medford  
 Linda Twenstrup Patchen, Corvallis  
 Patricia Gail Patterson, Marysville,  
 California  
 Janet Marie Peoples, Baker  
 Wilma Dorothy Peetz, Tygh Valley  
 Joyce Theresa Pemberton, Albany  
 Jean Louise Penrose, Tigard

Agnes Lois Pereira, Kahuku, Oahu,  
 Hawaii  
 Jeanne Therese Perrin, Redwood City,  
 California  
 Lois Ellen Pieters, Clatskanie  
 Nadine Annette Pitchford, Sweet  
 Home  
 Sharon Deanne Reed, Corvallis  
 Marilyn Grace Reynolds, Corvallis  
 Lynn Cecelia Richardson, Santa Ana,  
 California  
 Bonnie Jean Roecks, Manteca,  
 California  
 Marilyn Kay Schaefer, Salem  
 Gail Heater Scott, Corvallis  
 Susan Margaret Smith, Oceanlake  
 Clara Jeanne Tedrow, Oswego  
 Patricia Jean Warner, Pacific  
 Palisades, California  
 Ailene Deanna Weber, Medford  
 Darlene Mary Wheeler, Selma  
 Janet Susan Wilson, Fort Klamath  
 Pamela Louise Wilson, Pacific  
 Palisades, California  
 Louise Pualani Wolcott, Kaneohe,  
 Hawaii  
 Carol Jean Wolfskill, Corvallis  
 Maureen Susan Worrell, McMinnville  
 Patricia Lou Wright, Hillsboro

## School of Pharmacy

Charles Owens Wilson, Dean

The School of Pharmacy offers major curricula, all of them requiring five years to complete, in pharmaceutical chemistry, pharmaceutical science, pharmacognosy, pharmacology, and pharmacy administration.

### BACHELOR OF ARTS

Eddie Martin Gonzales, Santa Paula,  
 California

Joseph Anthony Michaels, Stockton,  
 California

### BACHELOR OF SCIENCE

Allen Mamoru Ando, Portland  
 James Richard Baker, Portland  
 Elpedio Basa, Makaweli, Hawaii  
 David Bishop Bell, Portland  
 Jerry Al Bernardi, Kerman, California  
 James Herbert Bennett, Corvallis  
 Gary Adrian Bliven, Salem  
 Jack Dale Boehme, Corvallis  
 George Lewis Bradley, Portland  
 Bruce Donald Carlson, Coos Bay  
 Dennis Lowell Child, Portland  
 Gordon Daryle Elwood, Salem  
 William Melford Fetter, Corvallis  
 Jack Dice Fluck, Pacific Grove,  
 California

Robert Phil Gates, Medford  
 George Byron Gillett, Junction City  
 Eddie Martin Gonzales, Santa Paula,  
 California  
 Howard Stanley Harper, Medford  
 Ronald Shoichi Hasegawa, Wailuku,  
 Hawaii  
 Kenneth Herman Hermes, Portland  
 Dale Perry Hern, Lebanon  
 Akiharu Hisatomi, Sacramento,  
 California  
 Carol Katsuko Hisatomi, Sacramento,  
 California  
 Jack Bertus Hyatt, Corvallis  
 Eldon James Jager, Junction City

John Leonard McGonegal, Monmouth  
Donald Joseph Madeiros, Modesto,  
California  
Joseph Anthony Michaels, Stockton,  
California  
Theodore Henry Moon, Portland  
Ralph Hoy Morgan, Salem  
Albert Austin Nickels, Corvallis  
Allen Lee Notowitz, San Mateo,  
California  
Winifred Kow-Won Ong, Baker  
Richard Wayne Parlee, Albany  
Harold Luverne Parmenter, Eugene

Creighton Leroy Parsons, Metolius  
David Anthony Radanovich, Mariposa,  
California  
Frederick William Raw, Corvallis  
Richard Blaine Roberts, Redding,  
California  
Lynn Arthur Schwalbe, Milwaukie  
Gary Holland Sowles, Corvallis  
Dick Thomas Speros, Emmett, Idaho  
Darlene Shizuyo Tamura, Oregon City  
Ruby Sumiko Tomiyoshi, Ontario  
Brian Sueo Yano, Honolulu, Hawaii

# Advanced Degrees

## The Graduate School

Henry P. Hansen, Dean

All work beyond the baccalaureate degree is supervised by the Graduate Council and the Dean of the Graduate School. Full graduate programs through the Doctor of Philosophy degree are offered in biological sciences, physical sciences, mathematics, agriculture, education, engineering, forestry, home economics, and pharmacy. Oregon State University offers the following advanced degrees in course:

Master of Agriculture (M.Agr.)	Agricultural Engineer (A.E.)
Master of Arts (M.A.)	Chemical Engineer (Ch.E.)
Master of Arts (General Studies) (M.A.)	Civil Engineer (C.E.)
Master of Science (M.S.)	Electrical Engineer (E.E.)
Master of Education (Ed.M.)	Industrial Engineer (I.E.)
Master of Forestry (M.F.)	Mechanical Engineer (M.E.)
Master of Home Economics (M.H.Ec.)	Mining Engineer (Min.E.)
	Doctor of Education (Ed.D.)
	Doctor of Philosophy (Ph.D.)

### MASTER OF ARTS (GENERAL STUDIES)

Arthur William Goodearl, Phoenix, Arizona B.A., 1917, Clark University Major: General Studies Thesis: Academic Preparation of American Business Executives for Foreign Service.	Smorn Nitidandhaprabhas, Bangkok, Thailand B.A., 1953, Chulalongkorn University, Thailand B.Ed., 1956, Chulalongkorn University, Thailand Ed.M., 1958, Oregon State College Major: General Studies Thesis: Thai Rural Family Life in Transition.
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### MASTER OF ARTS

Susan Dobson Borden, Corte Madera, California B.S., 1960, Iowa State University Major: Analysis Minor: Algebra—Geometry Thesis: The Foundations of Trigonometry.	Patricia Moira Prenter, Oakland, California B.A., 1955, University of British Columbia, Canada Major: Analysis Minor: Algebra Thesis: A Recursive Definition of Ordinal Arithmetic.
Verna Louise Engstrom-Heg, Corvallis B.S., 1952, University of Washington B.S., 1955, University of Washington Major: Mathematics Minor: Zoology Thesis: Some Mathematical Models in Ecology.	Richard Elroy Welton, Wenatchee, Washington B.S., 1959, State College of Washington Major: Entomology Minor: Plant Pathology Thesis: Seasonal Activities of Two Species of Eriophyid Mites on Holly and Their Relation to Foliage Damage.
Ronald Bernard Guenther, North Bend B.A., 1959, Oregon State College Major: Mathematics Minor: Analysis—Algebra Thesis: An Extension of Widder's Theorem.	

### MASTER OF SCIENCE

Charles Richard Abbey, Corvallis B.S., 1957, Oregon State College Major: Electrical Engineering Minor: Mathematics Thesis: Detection of Phase-Modulated Signals, Using Digital Techniques.	Dogan Ibrahim Akkaya, Istanbul, Turkey B.S., 1960, Stanford University Major: Electrical Engineering Minor: Electronics Thesis: Lumped Model Transistor Noise Analysis.
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- Ghazi Mohammed Al-Hachim,  
Samarra, Iraq  
B.S., 1958, University of Baghdad, Iraq  
Major: Dairy and Animal Husbandry  
Minor: Biochemistry—Statistics  
Thesis: Oxygen Uptake by Bovine Spermatozoa Subjected to Carbondioxide and Argon Gas Pressures.
- Lois Kendron Allen, Corvallis  
B.A., 1960, Rosary College  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Studies on Transduction in Lactic Streptococcus Organisms.
- Marian Faye Anderson, American Fork, Utah  
B.S., 1959, Brigham Young University  
Major: Child Development  
Minor: Psychology  
Thesis: Child Care Arrangements Made by Families with Mothers Employed at Oregon State University.
- Dorothy Ruth Armbruster, Torrance, California  
B.A., 1941, University of Iowa  
Major: General Science  
Minor: Education
- Clement Yeomans Arnold, Jr., Philomath  
B.B.A., 1954, University of Oregon  
M.S., 1956, University of Oregon  
Major: General Science  
Minor: Science Education
- Sukanda Arthachinta, Bangkok, Thailand  
B.S., 1957, Chulalongkorn University, Thailand  
Major: Organic Chemistry  
Minor: Inorganic Chemistry  
Thesis: Reactions of the Condensate of Picolyllithium and Acrolein.
- Mona Humphries Bailey, Seattle, Washington  
B.S., 1954, Florida A & M University  
Major: General Science  
Minor: Science Education—General Science
- Hiyam Hassan Bairakdar, Damascus, Syria  
B.S., 1958, Damascus University, Syria  
Major: Physical Chemistry  
Minor: Inorganic Chemistry  
Thesis: The Radiosulfur Exchange Reaction Between Sulfur Dioxide and Fused Ammonium Bisulfate.
- Howard Lee Ballieu, Mountain View, California  
B.S., 1949, Oregon State College  
Major: Electrical Engineering  
Minor: Physics  
Thesis: The Binistor as an Electronic Switching Element.
- Larry David Barnett, Los Angeles, California  
B.A., 1961, University of California at Los Angeles  
Major: Family Life  
Minor: Sociology  
Thesis: Students' Anticipations of Persons and Arguments Opposing Interracial Dating.
- Donald Roger Barton, Portland  
B.S., 1959, Oregon State College  
Major: Electrical Engineering  
Minor: Nuclear Engineering  
Thesis: An Alternating Current, Resistance Analog Network Simulator for A-C Power System Stability Studies.
- George Lewis Batchelder, Bremerton, Washington  
B.A., 1953, Harvard University  
Major: General Science  
Minor: Science Education
- Bryce Wight Baxter, Corvallis  
B.S., 1956, Eastern Oregon College  
Major: General Science  
Minor: General Science—Science Education
- Edward Tebben Bayliss, Sheridan  
B.S., 1961, Oregon State University  
Major: Electrical Engineering  
Minor: Mathematics  
Thesis: Pulsed-Current Operation of Hall-Effect Generators.
- William Mark Beck, Corvallis  
B.S., 1959, Southern Oregon College  
Major: Zoology  
Minor: Botany  
Thesis: Studies on the Vertebrate Ecology of a Bottomland Woods in the Central Willamette Valley.
- John Clair Belton, Salem  
B.S., 1957, Lewis and Clark College  
Major: Zoology  
Minor: Biochemistry  
Thesis: A Histological Study of the Digestive System of *Ascapheus Truei*.
- William Riley Bennett, Corvallis  
B.S., 1952, Oregon State College  
Major: Dairy and Animal Husbandry  
Minor: Agricultural Economics  
Thesis: Comparative Milk Yields, Milk Composition, and Herd Health of Dairy Cows on Irrigated Pasture and in Dry-Lot.
- Ralph Hundley Bergstad, Astoria  
B.S., 1961, Oregon State University  
Major: Chemical Engineering  
Minor: Mathematics  
Thesis: A Comparison of Three Probes Used for Measuring Local Heat Transfer Coefficients.
- Leslie Howard Birdsall, Corvallis  
B.S., 1958, Oregon College of Education  
Major: Algebra and Analysis  
Minor: Mathematics for Teachers  
Thesis: Quaternions and Their History.
- Robin Allan Bithell, Klamath Falls  
B.S., 1957, Oregon State College  
Major: Aeronautical Engineering  
Minor: Mechanical Engineering  
Thesis: The Design and Construction of a Small Intermittent Supersonic Wind Tunnel.
- Martin Leon Boehme, Aumsville  
B.S., 1960, Oregon State College  
Major: Mechanical Engineering  
Minor: Theoretical Mechanics—Psychology  
Thesis: The Use of a Stirling Hot-Air Engine in Converting Solar Energy to Mechanical Power.

- Marian Elizabeth Boise, Sweet Home  
B.S., 1955, Oregon State College  
Major: General Science  
Minor: General Science
- Jerrold Hubert Borden, Morrill,  
Nebraska  
B.S., 1957, Nebraska State College  
Major: General Science  
Minor: General Science
- G H Brannon, Carnegie, Oklahoma  
B.S., 1957, Oklahoma State University  
Major: General Science  
Minor: General Science—Science Education
- Clyde Owen Brown, Newington,  
Connecticut  
B.S., 1960, Oregon State College  
Major: Electrical Engineering  
Minor: Electrical Engineering—Physics  
Thesis: Exploding Wire Current Pulse and the Resulting Luminous Radiation.
- Frank Brown, Demopolis, Alabama  
B.S., 1957, Alabama State College  
Major: General Science  
Minor: General Science—Science Education
- Lawrence Lyle Brown, Lebanon  
B.S., 1951, Pacific University  
Major: General Science  
Minor: Science Education
- Robert Charles Brown, Fortuna,  
California  
B.S., 1960, Oregon State College  
Major: Natural Resources  
Minor: Agricultural Economics  
Thesis: The Agricultural Geography of Peppermint in the Pacific Northwest.
- Willie Claiborne Brown, Bedford,  
Virginia  
B.S., 1960, Virginia State College  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Studies on Transformation in Streptococci.
- Harry Richard Bryant, Lake Grove  
B.S., 1949, Oregon State College  
Major: Forest Engineering  
Minor: Geomorphology  
Thesis: Some Relations of Slope Development to Forest Engineering.
- Betty Ann Burklund, North Platte,  
Nebraska  
B.S., 1959, University of Nebraska  
Major: Home Economics Education  
Minor: Family Life  
Thesis: Secondary Homemaking Students' Attitudes Towards Self-Directive Learning Experiences.
- Lamon Busapavanija, Bangkok,  
Thailand  
B.S., 1953, University of Medical Sciences, Bangkok, Thailand  
Major: General Science  
Minor: General Science
- Paul Welland Campbell, Modesto,  
California  
B.A., 1949, Western State College  
M.A., 1955, Western State College  
Major: General Science  
Minor: General Science
- Joel Alfred Carlson, Everett,  
Washington  
B.A., 1957, Western Washington College  
Major: General Science  
Minor: General Science
- Hoy Fred Carman, Corvallis  
B.S., 1960, Oregon State College  
Major: Agricultural Economics  
Minor: Economics  
Thesis: Consumer Preferences, Attitudes, Buying Practices, and Consumption Patterns for Broilers in Oregon.
- Gary Leon Carnahan, Corvallis  
B.S., 1958, Oregon State College  
Major: Geology  
Minor: Oceanography  
Thesis: Geology of the Southwestern Part of Eagle Cap Quadrangle, Willowa Mountains, Oregon.
- Jose Luis Carrillo-S, Mexico, D. F.,  
Mexico  
B.S., 1957, Escuela Nacional de Agricultura, Mexico  
Major: Entomology  
Minor: Botany  
Thesis: Biology of the Seed Chalcids *Bruchophagus gibbus* (Boheman) and *B. roddi* Gussakovskii in Oregon.
- Wynferd Ray Chilton, Sandy  
B.S., 1949, Oregon State College  
Major: General Science  
Minor: Science Education—Mathematics
- Clayton Herbert Chisum, Pomona,  
California  
B.S., 1959, Oregon State College  
Major: Mathematics  
Minor: Analysis  
Thesis: On the Cauchy-Davenport Inequality for the Sum of Subsets of a Cyclic Group.
- Vernon Nam Chock, Honolulu,  
Hawaii  
B.S., 1960, Oregon State University  
Major: General Science  
Minor: Health Education
- John Charles Christ, Weed,  
California  
B.S., 1955, Nebraska State Teachers College  
M.S., 1960, Nebraska State Teachers College  
Major: General Science  
Minor: General Science
- Barbara Gae Christensen, Richfield,  
Utah  
B.S., 1954, University of Utah  
Major: Clothing, Textiles, and Related Arts  
Minor: Home Economics Education—Family Life and Home Administration  
Thesis: Changes in Breaking Strength of Wool and Acrylic Blankets Resulting from Laundering.
- Donnell Story Chubb, Grants Pass  
B.S., 1952, Eastern Oregon College of Education  
Major: General Science  
Minor: Science Education



- Chuen-Shang Chung, Taipei, China  
B.S., 1957, National Taiwan University,  
Taipei, Taiwan  
Major: Biochemistry  
Minor: Botany  
Thesis: Organic and Inorganic Nutrition of  
Tilletia Contraversa.
- Charles Neal Clubine, Corvallis  
B.A., 1957, Iowa State Teachers College  
Major: General Science  
Minor: Science Education
- Alathea Denslow Clymer, Corvallis  
B.S., 1957, State University of New York  
Major: General Science  
Minor: General Science—Science Educa-  
tion
- Reid Sandford Connell, Portland  
B.S., 1959, Oregon State College  
Major: General Science  
Minor: General Science
- George Lamoine Crockett, Preston,  
Idaho  
B.S., 1958, Utah State University  
Major: General Science  
Minor: Science Education
- Jack Douglas Culbertson, Falls  
Church, Virginia  
B.S., 1960, Oregon State College  
Major: Electrical Engineering  
Minor: Mathematics  
Thesis: Optimal Error Magnitude Adaptive  
Control System.
- Carroll Leslie Davis, Pleasant Hill,  
California  
B.S., 1953, Oregon State College  
Major: General Science  
Minor: Guidance
- Clyde Edward Davis, Jr., Corvallis  
B.S., 1959, College of Idaho  
Major: Organic Chemistry  
Minor: Inorganic Chemistry  
Thesis: Reactions of 2-hydroxy-3-bromo 1,  
2,3,4 Tetrahydroquinolizinium Bromide.
- James Eugene Dennison, Corvallis  
B.A., 1954, Miami University  
Major: Analytical Chemistry  
Minor: Physical Chemistry  
Thesis: The Investigation of Octaamine-u-  
nitro-u-amidodicobalt (III) Nitrate as an  
Analytical Reagent for Sulfate.
- John Edward Dever, Jr., Bellmawr,  
New Jersey  
B.A., 1960, Rutgers University  
Major: Botany  
Minor: Biochemistry  
Thesis: Plant Production in a Woodland  
Stream Under Controlled Conditions.
- Oren Wesley Dixon, Corvallis  
B.A., 1957, Eastern Washington College  
Major: Algebra  
Minor: Analysis  
Thesis: On the Simplification of Boolean  
Polynomials.
- Ferrin Mackenzie Dodson, Bellflower,  
California  
B.S., 1955, University of Southern Cali-  
fornia  
Major: General Science  
Minor: Education
- Leif Martensen Duus, Hutchinson,  
Minnesota  
B.S., 1954, University of Minnesota  
Major: General Science  
Minor: General Science
- Noel David Eichhorn, Williston Park,  
New York  
B.A., 1952, Lehigh University  
Major: Natural Resources  
Minor: Statistics  
Thesis: A Study of the Probability and  
Distribution of the Last Occurrence in  
Spring and First Occurrence in Fall of  
Certain Low Temperatures for Selected  
Oregon Stations.
- David Alex Emery, Corvallis  
B.S., 1958, Kent State University  
Major: General Science  
Minor: Oceanography
- Robert Thorton Engstrom-Heg,  
Corvallis  
B.S., 1950, University of Washington  
B.A., 1957, Pacific Lutheran College  
Major: General Science  
Minor: General Science
- Jerald Lee Evans, Cascade, Idaho  
B.S., 1953, University of Idaho  
Major: General Science  
Minor: Education
- Richard Lee Fandrem, Portland  
B.S., 1961, Oregon State University  
Major: Civil Engineering  
Minor: Political Science  
Thesis: A Procedure for the Distribution of  
Internal Forces and Moments in Cylin-  
drical Shells Under Uniform External  
Loading.
- Robert Maurice Farring, Jr., Salem  
B.S., 1959, Oregon State College  
Major: Agricultural Education  
Minor: Dairy and Animal Husbandry  
Thesis: Teaching Schedules of Vocational  
Agricultural Teachers in Multiple-  
Teacher Departments.
- Alyce Mae Fiedler, Chicago, Illinois  
B.A., 1957, Mundelein College  
Major: General Science  
Minor: Science Education
- Charles Lynn Fife, Idaho Falls, Idaho  
B.S., 1960, Brigham Young University  
Major: Agricultural Economics  
Minor: Statistics  
Thesis: Estimating Economically Optimum  
Nitrogen Rates by Incorporating Nitro-  
gen Soil Tests and Moisture Factors into  
Statistical Wheat-Fertilizer Response  
Functions.
- William Herbert Fryback, Corvallis  
B.A., 1945, Colorado College  
M.A., 1950, University of Kansas City  
Major: General Science  
Minor: Science Education
- Ralph Edwin Gabrielsen, Portland  
B.A., 1960, University of Oregon  
Major: Applied Mathematics  
Minor: Analytic Mathematics  
Thesis: A Positive Harmonic Function in  
a Rectangle.



- Robert Imre Gara, Corvallis  
B.S., 1953, Utah State University  
Major: Forest Entomology  
Minor: Forestry  
Thesis: A Field Approach to Study the Flight Behavior of Bark Beetle Populations (Coleoptera: Scolytidae).
- Boyd Wendell Gentry, Exeter, Nebraska  
B.S., 1956, Kearney State Teachers College  
Major: General Science  
Minor: General Science
- Evangelos John Gizis, Piraens, Greece  
B.S., 1957, Athens University, Greece  
Major: Food Technology  
Minor: Chemistry  
Thesis: Color Changes in Berries During Processing and Storage.
- Leticia Pangilinan Gomez, Caloocan, Rizal, Philippines  
B.S., 1960, University of the Philippines  
Major: Food Technology  
Minor: Biochemistry  
Thesis: Vitamin K<sub>s</sub> As A Food Preservative.
- Joseph Marvin Greendorfer, Daly City, California  
B.S., 1956, University of California  
Major: Organic Chemistry  
Minor: Biochemistry  
Thesis: The Reaction of Phosphorus Oxchloride with Certain Hydroxylated Nitrogen Heterocycles in the Presence of Tertiary Aromatic Amines.
- Conrad Dene Griffith, Hood River  
B.S., 1953, Oregon State College  
Major: General Science  
Minor: Education
- Helen Hackett, American Falls, Idaho  
B.A., 1948, University of Nevada  
Major: General Science  
Minor: General Science
- Max Halber, Corvallis  
B.S., 1953, North Carolina State College  
Major: Plant Pathology  
Minor: Forest Entomology  
Thesis: *Botrytis* Infection of Douglas-fir Seedlings and its Control with Thiram.
- Edward Lewis Hall, Sandy  
B.S., 1955, Oregon State College  
Major: General Science  
Minor: Education
- John Franz Hall, Corvallis  
A.B., 1952, Stanford University  
M.A., 1953, Stanford University  
Major: General Science  
Minor: General Science
- Robert Leonard Hall, Livermore, California  
B.S., 1960, Oregon State College  
Major: Electrical Engineering  
Minor: Statistics—Electronics  
Thesis: The Corona Mechanism in the Presence of a Magnetic Field.
- Stanley Bigelow Hall, Junction City  
B.A., 1949, Grinnell College  
Ed.M., 1956, University of Oregon  
Major: General Science  
Minor: Science Education
- Grace Anne Hamilton, Ashland  
B.S., 1959, Oregon State College  
Major: Zoology  
Minor: Entomology  
Thesis: Food Web Studies in an Oak Woodland Ecosystem.
- Margery Anne Hammers, Yuma, Arizona  
B.S., 1941, Oregon State College  
Major: Clothing and Textiles  
Minor: Home Economics Education  
Thesis: A Brief History of Wallpaper and How it has Been Influenced by Contemporary Ways of Life.
- James Odell Hanson, Sacramento, California  
B.S., 1953, Oregon State College  
Major: General Science  
Minor: Science Education
- Richard Joseph Hanson, Corvallis  
B.S., 1960, Oregon State University  
Major: Analysis  
Minor: Applied Mathematics  
Thesis: Long Range Regulation of a Hydroelectric System with Storage Dams.
- Glenn Llewellyn Harper, Porterville, California  
A.B., 1938, College of the Pacific  
Major: General Science  
Minor: General Science
- Doyle Vinson Harris, Salem  
B.A., 1948, Montana State University  
Major: General Science  
Minor: Science Education
- Peter Harvey, Prince Rupert, Canada  
B.S., 1956, University of British Columbia, Canada  
Major: Electrical Engineering  
Minor: Mathematics  
Thesis: Digital Investigation of Switching Transients from an Impedance Shunted Circuit Breaker.
- Fred Emil Hauck, Corvallis  
B.S., 1959, Union College  
Major: General Science  
Minor: General Science
- John William Hazard, Corvallis  
B.S., 1957, Iowa State College  
Major: Forest Management  
Minor: Statistics  
Thesis: A Plan of Timber Management and of Road Development for Tract B in the Wassen Creek Drainage of Northwest Douglas County, Oregon.
- James Lee Herman, Dorchester, Wisconsin  
B.A., 1957, Northland College  
Major: General Science  
Minor: General Science
- Fred Glen Hess, Klamath Falls  
B.S., 1957, Oregon State College  
Major: General Science  
Minor: General Science
- Edward Lee Holland, West Linn  
B.S., 1960, Oregon State College  
Major: Pharmacology  
Minor: Statistics  
Thesis: A Comparison of the Antiarhythmic Activities of Amodiaquine, Primaquine and Quinidine.

- Robert Lawrence Holton, Corvallis  
B.A., 1950, Montana State University  
M.E., 1958, Montana State University  
Major: General Science  
Minor: Statistics
- Frank Kent Hoornbeek, Corvallis  
B.S., 1952, Oregon State College  
Major: Genetics  
Minor: Statistics  
Thesis: Some Genetic and Environmental Factors Associated with Performance and Carcass Traits of Beef Cattle.
- Robert Wilson Howe, Arlington, Washington  
B.A., 1954, Willamette University  
Major: General Science  
Minor: Science Education
- James Rodney Howland, Ketchikan, Alaska  
B.S., 1959, University of Idaho  
Major: Silviculture  
Minor: Ecology  
Thesis: Some Factors Affecting Douglas-fir Seedling Growth and Establishment.
- Gordon Laurance Hull, Hayward, California  
B.S., 1960, Oregon State College  
Major: Mechanical Engineering  
Minor: Metallurgy  
Thesis: The Design of a Variable Strain Rate, Autographic Recording, Tensile Testing Machine.
- Ray Edward Hull, Eugene  
B.S., 1957, Oregon State College  
Major: General Science  
Minor: Education
- John Stuart Hutchinson, Milwaukie  
A.B., 1950, Colorado State College  
M.A., 1953, Colorado State College  
Major: General Science  
Minor: Science Education
- Henry Herbert James, Corvallis  
B.A., 1956, Harding College  
Major: General Science  
Minor: Science Education
- Gary Davis Jarman, Dallas  
B.S., 1959, Oregon State College  
Major: Geology  
Minor: Oceanography  
Thesis: Recent Foraminifera and Associated Sediments of the Continental Shelf in the Vicinity of Newport, Oregon.
- George Edward Jenvey, San Mateo, California  
B.A., 1949, University of British Columbia  
Major: General Science  
Minor: Science Education
- Bill Ray Jobe, Vallejo, California  
B.S., 1954, Central State College  
Major: General Science  
Minor: Science Education
- Douglas Edward Johnson, Portland  
B.S., 1960, Oregon State College  
Major: Mechanical Engineering  
Minor: Psychology
- Sarah Cole Johnson, Newtonville, Massachusetts  
B.A., 1957, Grinnell College  
M.A., 1958, Boston University  
Major: General Science  
Minor: General Science
- Leonard Robert Joppa, Sidney, Montana  
B.S., 1957, Montana State College  
Major: Genetics  
Minor: Farm Crops  
Thesis: Variability in Four Genotypes of Tall Fescue.
- Charles Willton Keith, Lake Oswego, Oregon  
B.A., 1940, State Teachers College, North Dakota  
Major: General Science  
Minor: Science Education
- George Hunt Kennedy, Corvallis  
B.S., 1959, University of Oregon  
Major: Physical Chemistry  
Minor: Analytical Chemistry  
Thesis: The Adsorption of Water and Methanol Vapors by Organic Complexes of Montmorillonites.
- David Emmet Kerley, Eugene  
B.S., 1958, Oregon State College  
Major: Zoology  
Minor: Biochemistry  
Thesis: Osmoregulation in Two Geographically Isolated Populations of Fresh Water Crayfish.
- Martin Dean Knittel, Seattle, Washington  
B.S., 1955, Willamette University  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Intracellular Development of Fowl Laryngotracheitis Virus.
- Stanley John Kooi, Corvallis  
B.A., 1956, University of Colorado  
Major: General Science  
Minor: Geology
- Minnie Mae Eskew Kronenberg, Eugene  
B.S., 1956, Oregon State College  
Major: Family Life  
Minor: Home Economics  
Thesis: The Influence of Pre-school Experience on Children's Adjustment in Kindergarten as Judged by Their Teachers.
- Lloyd David Kuhn, Kelowna, Canada  
B.S., 1956, Walla Walla College  
Major: Analytical Chemistry  
Minor: College Teaching  
Thesis: Chromatography of the Alkaline Earths on Chelating Ion Exchange Resins.
- Stanley Fleming Kvern, Cataldo, Idaho  
B.A., 1954, Pacific Lutheran College  
Major: General Science  
Minor: Science Education
- Paul Nii Lante Lamptey, Accra, Ghana  
B.S., 1959, Iowa State College  
Major: Plant Pathology  
Minor: Farm Crops  
Thesis: Response of Hannchen Barley to the Yellow Dwarf Virus as Modified by Nitrogen and Phosphorus.



- Charles Winfield Laythe, Corvallis  
B.S., B.A., 1960, Oregon State College  
Major: Natural Resources  
Minor: Political Science  
Thesis: The Dynamics of the Soviet Coal Industry: A Geographic Interpretation.
- Jong Sun Lee, Corvallis  
A.B., 1958, University of California  
Major: Microbiology and Hygiene  
Minor: Biochemistry  
Thesis: Spectrophotometric Characterization of the Carotenoid Pigments Isolated from *Micrococcus radiodurans*.
- Bernard Leroy Lenz, Toledo, Ohio  
B.S., 1957, University of Idaho  
Major: Forest Products Chemistry  
Minor: Forest Products  
Thesis: Extraction of Bark Fibers by Hydrotropic Solutions and the Identification of the Extracted Materials.
- Yeom Seng Lim, Tigard  
B.S., 1958, University of California  
Major: Analysis and Number Theory  
Minor: Algebra  
Thesis: An Inequality for the Number of Integers in the Sum of Two Sets of Integers.
- Carl Arthur Linde, Jr., Kent, Washington  
B.A., 1957, Western Washington College  
Major: General Science  
Minor: Science Education
- Cheng Lung Liu, Corvallis  
B.S., 1958, Cheng Kung University, Taiwan, China  
Major: Hydraulics Engineering  
Minor: Agricultural Engineering  
Thesis: Experimental Study of Energy Distribution in a Two-dimensional Sudden Contraction.
- Roger Osman Loken, Seattle, Washington  
B.S., 1948, University of Washington  
Major: General Science  
Minor: General Science
- Doris Elinor Lokken, Seattle, Washington  
B.A., 1956, University of Washington  
Major: Clothing and Textiles  
Minor: College Teaching  
Thesis: Influences Affecting the Clothing of High School and College Men.
- Hernan Villanueva López, Temuco, Chile  
B.S., 1953, Ingeniero Agronomo, University of Chile  
Major: Farm Crops  
Minor: Botany  
Thesis: Influence of the Removal of Weed Competition by Herbicides in Establishing Subterranean Clover, *Trifolium Subterraneum* L.
- James Elwood Lunn, Albany  
B.A., 1947, Jamestown College  
Major: General Science  
Minor: Science Education
- John Higgins Lyford, Jr., Corvallis  
B.A., 1950, Carleton College  
Major: General Science  
Minor: General Science
- William McKinley McCord II, Portland  
B.S., 1950, Whitworth College  
Major: General Science  
Minor: Science Education
- Robert Archiebald McCoy, Newberg  
B.Ed., 1957, Plymouth Teachers College  
Major: General Science  
Minor: General Science
- Ailsa Evelyn McEachran, Vancouver, British Columbia, Canada  
B.He., 1952, University of British Columbia  
Major: Clothing and Textiles  
Minor: College Teaching  
Thesis: A Study of the Consumers' Knowledge of Yardage Fabric Information.
- Brian Lester McNeal, Riverside, California  
B.S., 1960, Oregon State College  
Major: Soils  
Minor: General Science  
Thesis: The Electrochromatographic Behavior of Some Layer-Silicate Minerals.
- Joseph Alfred Mansfield, Redmond  
B.S., 1958, University of Oregon  
Major: Physics  
Minor: Mathematics  
Thesis: Gamma-Ray Attenuation Factors for Angular Correlation and Angular Distribution Measurements.
- Alfred Joseph Martin, Martinez, California  
A.B., 1938, San Jose State College  
Major: General Science  
Minor: Education
- Leslie Levi Martin, Gilchrist  
B.S., 1957, Southern Oregon College  
Major: General Science  
Minor: General Science
- Benjamin Jordan Mason, Corvallis  
B.S., 1957, University of Washington  
Major: Forest Management  
Minor: Soils  
Thesis: The Response of Individual Douglas-fir Trees to Applications of Inorganic Fertilizers.
- Joseph Quentin Mason, Altadena, California  
B.S., 1947, Morgan State College  
M.A., 1952, DePaul University  
Major: General Science  
Minor: Education
- Joan Elizabeth Michalek, Palo Alto, California  
B.S., 1959, Stanford University  
Major: Food Science  
Minor: Microbiology  
Thesis: A Method for the Determination of Vitamin K<sub>s</sub> in Fruits and Vegetables.
- Fritz Antoine Michel, Port-au-Prince, Haiti  
Diploma, 1959, University of Haiti  
Major: Entomology  
Minor: Botany  
Thesis: The Taxonomic Value of the Male Genitalia of the Genus *Gerris Fabricius* (Hemiptera Heteroptera: Gerridae.)

- Phillip Harry Miller, Asti, California  
B.S., 1959, Oregon State College  
Major: Food Science and Technology  
Minor: Biochemistry  
Thesis: Identification of Flavor Components of Loganberry Essence.
- Douglas Elmos Millican, Portland  
B.A., 1945, University of Oregon  
M.S., 1951, University of Portland  
Major: General Science  
Minor: General Science
- Zeinab Shehata Mohasseb,  
Alexandria, Egypt  
B.S., 1958, Alexandria University, Egypt  
Major: Food Technology  
Minor: Statistics  
Thesis: Electrophoretic Patterns of Fresh, Irradiated-Pasteurized and Irradiated-sterilized Beef Stored at 34° F.
- William Lewis Moore, Rogers, North Dakota  
B.S., 1957, Jamestown College  
Major: General Science  
Minor: Science Education—General Science
- Mahmoud Abd-el-Fattah Moustafa,  
Tanta, Egypt  
B.Me., 1957, Cairo University, Egypt  
Major: Mechanical Engineering  
Minor: Mathematics  
Thesis: Undamped Oscillations of Air Springs.
- Lawrence Daniel Moynihan,  
Grants Pass  
B.S., 1960, Oregon State College  
Major: General Science  
Minor: Science Education
- Deane Loren Munger, Ridgway,  
Colorado  
B.S., 1957, Colorado State University  
Major: General Science  
Minor: Science Education
- Richard Clark Musselman, Newark,  
Delaware  
B.S., 1954, Lebanon Valley College  
Major: General Science  
Minor: General Science
- Ralph Leroy Nafziger, Springfield  
B.A., 1951, University of Oregon  
Major: General Science  
Minor: Science Education
- Yoshimi Nakano, Tokyo, Japan  
B.E., 1959, Waseda University, Tokyo,  
Japan  
Major: Electrical Engineering  
Minor: Mathematics  
Thesis: Semi-Graphical Design of Servo-mechanisms Using Inverse Root Locus.
- Boyd Nash, Preston, Idaho  
B.S., 1958, Idaho State College  
Major: Organic Chemistry  
Minor: Biochemistry  
Thesis: Reactions of the Condensates of Picolylithium and Acrolein and Methacrolein.
- Wright Ralph Noel, Corvallis  
B.S., 1961, Oregon State University  
Major: Agricultural Education  
Minor: Guidance—Dairy Science  
Thesis: Placement of Vocational Agriculture Students.
- Joel Arvid Norgren, Stamford,  
Connecticut  
B.S., 1954, Cornell University  
Major: Soils  
Thesis: Thin-section Micromorphology of Eight Oregon Soils.
- Soren Frederick Normann, Edmonds,  
Washington  
B.S., 1955, University of Washington  
Major: Mathematics  
Minor: Physics  
Thesis: Two Finite Chebyshev Transformations.
- William Duane Noteboom, Salem  
B.S., 1955, Oregon State College  
Major: Animal Nutrition  
Minor: Biochemistry  
Thesis: Some Effects of Plant Estrogens on Animals.
- Donald David Nye, Winston  
B.S., 1952, University of Idaho  
Major: General Science  
Minor: Education
- Ahmad Omid, Tehran, Iran  
B.S., 1955, California State Polytechnic College  
Major: Farm Crops  
Minor: Botany  
Thesis: The Influence of Soil Moisture and Method of Application on the Movement of the Herbicide EPTC in Soil.
- William Robert Orchard, Saanichton,  
Canada  
B.A., 1949, University of British Columbia  
Major: General Science  
Minor: Entomology
- Kathryn Orme, Idaho Falls, Idaho  
B.S., 1958, Brigham Young University  
Major: Clothing and Textiles  
Minor: College Teaching  
Thesis: Clothing Practices and Problems of Foreign Women at Oregon State University.
- Robert Binloun Pan, Taiwan, China  
B.S., 1955, National Taiwan University, Taipei, Taiwan  
Major: Chemical Engineering  
Minor: Mathematics—Chemistry  
Thesis: Natural Convection Heat Transfer from Finned Tubes.
- Jyotindra Babubhai Patel, Bombay,  
India  
B.S., 1955, Gujarat University, India  
M.S., 1957, Gujarat University, India  
Major: Pharmacy  
Minor: Advanced Pharmacology—Statistics  
Thesis: Factors Affecting Average Weight and Weight Variation of Compressed Tablets.
- Robert Joe Patterson, Alban  
B.S., 1957, Abilene Christian College  
Major: Physical Chemistry  
Minor: Inorganic Chemistry  
Thesis: The Interaction of Nitrogen and Carbon Dioxide with Unsupported Organic Films.
- Herbert M Pederson, Williston, North Dakota  
B.A., 1953, Bemidji State College  
Major: General Science  
Minor: General Science



- Ray Olof Petersen, Klamath Falls  
B.S., 1935, University of Idaho  
Major: Dairy Science  
Minor: Agricultural Economics—Extension Education  
Thesis: The Use of High Roughage Pellets in Cattle and Sheep Feeding.
- Robert Wilson Phillips, Newport  
B.S., 1953, Oregon State College  
Major: Fisheries  
Minor: Statistics  
Thesis: A Questionnaire Survey of Fish Pond Practices in Oregon.
- Carrie JoAnne Pigg, Tempe, Arizona  
B.A., 1959, Arizona State University  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Enzymatic Studies on Some Methionine Auxotrophs.
- David Dodican Porter, Portland  
B.S., 1949, University of Portland  
Major: General Science  
Minor: Education
- John Edwin Postlewaite, Corvallis  
B.S., 1953, Oregon State College  
Major: Mechanical Engineering  
Minor: Mathematics—Applied Mechanics  
Thesis: Production of Uniform Condensation on Saturated Air Flow in Cooled Porous Media.
- John Howard Pursel, Reno, Nevada  
B.S., 1958, University of Nevada  
Major: Agricultural Economics  
Minor: Economics—Statistics  
Thesis: An Analysis of Costs and Efficiencies of Certain Methods Used in Vining Green Peas.
- Prateap Rachapaetayakom, Bangkok, Thailand  
B.S., 1954, Kasetsart University, Thailand  
Major: Poultry Husbandry  
Minor: Biochemistry  
Thesis: Factors Influencing Calcium Requirement of Layers as Related to Certain Reproductive Characters.
- Raymond Jack Rae, Billings, Montana  
B.S., 1951, Rocky Mountain College  
Major: General Science  
Minor: Science Education
- James Vanner Ramsdell, Tacoma, Washington  
B.S., 1961, Oregon State University  
Major: Meteorology  
Minor: Political Science  
Thesis: A Study of Air Pollution Potentiality in the Willamette Valley.
- Roger William Ringstad, Mount Vernon, Washington  
B.A., 1951, University of Puget Sound  
Major: General Science  
Minor: Science Education
- Celia Rose Rockholt, Corvallis  
B.S., 1959, Oregon State College  
Major: Physical Chemistry  
Minor: Inorganic Chemistry  
Thesis: An Electron-diffraction Investigation of the Molecular Structure of Gaseous Fluorine Fluorosulfonate (SO<sub>2</sub>F<sub>2</sub>).
- Norman Joel Rowan, Barstow, California  
B.S., 1958, Brigham Young University  
Major: General Science  
Minor: Chemistry—Physics
- William Lee Ryan, Central Point  
B.S., 1961, Oregon State University  
Major: Sanitary Engineering  
Minor: Fluid Mechanics—Statistics  
Thesis: Characteristics of Jet Diffusers for Ocean Outfalls.
- Vichien Sakoramkol, Bangkok, Thailand  
B.S., 1959, Oregon State College  
Major: Biochemistry  
Minor: Analytical Chemistry  
Thesis: The Stability of Vitamin A in Hemolyzed Bovine Blood.
- James Louis Sandeno, Davis, California  
B.S., 1960, University of Illinois  
Major: Plant Pathology  
Minor: Botany  
Thesis: Diseases of Western Sword-fern, *Polystichum munitum* (Kaulf.) Presl.
- Robert Charles Sanders, Flossmoor, Illinois  
B.S., 1960, Michigan State University  
Major: Forest Management  
Minor: Statistics  
Thesis: A Plan of Timber Management and of Road Development for Tract A in the Wassen Creek Drainage of Northwest Douglas County, Oregon.
- Grady Franklin Saunders, Malin  
B.S., 1960, Oregon State College  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Studies on the Fatty Acid Composition of Yeast.
- Priscilla Prince Saunders, Corvallis  
B.S., 1960, Oregon State College  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Terminal Reactions in Tryptophan Biosynthesis in Yeast.
- Harold Louis Sawyer, Burns  
B.S., 1961, Oregon State University  
Major: Sanitary Engineering  
Minor: Statistics—Hydraulics  
Thesis: The Effect of Waste Water Lagoon Effluent Upon a Receiving Stream.
- Michael Jon Schaer, South Holland, Illinois  
B.S., 1960, Illinois Institute of Technology  
Major: Chemical Engineering  
Minor: Mathematics  
Thesis: Electrokinetic Power Generation.
- Arnold Leon Schroeder, Jr., Long Beach, California  
B.S., 1960, Oregon State College  
Major: Statistics  
Minor: Mathematics  
Thesis: Surface Fitting and Some Associated Confidence Procedures.
- Edward Dean Schroeder, Corvallis  
B.S., 1961, Oregon State University  
Major: Civil Engineering  
Minor: Statistics—Fluid Mechanics  
Thesis: The Degradation of Kraft Mill Waste in a Marine Environment.

- William Rhumell Scofield, El Cerrito, California  
A.B., 1954, San Jose State College  
Major: General Science  
Minor: General Education—General Science
- Manu Seetisarn, Udonrthani, Thailand  
B.S., 1956, Kasetsart University, Thailand  
Major: Agricultural Economics  
Minor: Economic Theory  
Thesis: Agricultural Credit Policies and Procedures of Commercial Banks with a View to Improved Financing of Agriculture in Thailand.
- Mouaffac Hamdy Shakashiro, Damascus, Syria  
B.S., 1958, Damascus University, Syria  
Major: Inorganic Chemistry  
Minor: Analytical Chemistry  
Thesis: The Radiosulfur Exchange Reaction Between Hydrogen Sulfide and elementary Sulfur in Chloroform Solutions Containing Triethylamine.
- Edmond Lee Sing, Portland  
B.A., 1954, Stanford University  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Bacteriophage Destruction by Aerosols of Dichloroisocyanuric Acid and Other Germicides.
- Surendra Prasad Sinha, Bihar, India  
B.S., 1958, Bihar University, India  
Major: Farm Crops  
Minor: Soils  
Thesis: Specific Combining Ability Estimates in Winter Wheat Crosses.
- Kanther Sivanathan, Karaveddi, Ceylon  
B.S., 1953, University of Ceylon, Ceylon  
Major: General Science  
Minor: Science Education
- Gordon Howard Smith, Corvallis  
B.S., 1959, Kansas State University  
Major: General Science  
Minor: Administration
- Stanley Alan Smithson, Boise, Idaho  
B.S., 1960, Oregon State College  
Major: Electrical Engineering  
Minor: Statistics—Computer Systems  
Thesis: An Elapsed Time Interval Counter for Seismic Exploration.
- Sardara Singh Sohi, Punjab, India  
B.S., 1950, Punjab University, India  
Major: Entomology  
Minor: Botany—Plant Pathology  
Thesis: Factors Affecting the Susceptibility of Bean Plants to Inoculation with Bean Yellow Mosaic Virus.
- Kemet Dean Spence, Corvallis  
B.S., 1960, Oregon State College  
Major: Microbiology and Hygiene  
Minor: Biochemistry  
Thesis: A Genetic and Biochemical Analysis of Selected Yeast Methionine Auxotrophs.
- Patricia Rae Starr, Wren  
B.S., 1958, Oregon State College  
Major: Microbiology  
Minor: Organic Chemistry  
Thesis: Studies on Sterol Synthesis in Yeast.
- John Martin Steigner, Corvallis  
B.S., 1938, St. Bonaventure College  
Major: Meteorology  
Minor: College and University Teaching  
Thesis: Variations From Pulse to Pulse in Weather Radar Return Signals.
- Robert Howard Sterling, Dallas  
B.S., 1935, Oregon State College  
Major: Agricultural Economics  
Minor: Agricultural Education  
Thesis: Adjustment Problems on Non-Irrigated General Farms in the Willamette Valley.
- Nelson Eugene Stewart, Corvallis  
B.S., 1961, Oregon State University  
Major: Fisheries  
Minor: General Science  
Thesis: The Influence of Oxygen Concentration on the Growth of Juvenile Large-mouth Bass.
- Richard Thomas Tanner, Cornelius  
B.S., 1958, Oregon College of Education  
Major: General Science  
Minor: General Science—Science Education
- George Robert Taylor, Corvallis  
B.S., 1960, Purdue University  
Major: Farm Crops  
Minor: General Botany  
Thesis: The Components and Associated Variables of Seed Yield in Alfalfa.
- Aage Teien, Oslo, Norway  
B.S., 1960, Oregon State College  
Major: Electrical Engineering  
Minor: Electronics—Statistics  
Thesis: Low Level D-C Detection Using a Photoconductive Modulator.
- Jumsak Tejasen, Bangkok, Thailand  
B.S., 1958, Chulalongkorn University, Thailand  
Major: Hydraulics  
Minor: Structural Engineering—Statistics  
Thesis: Estimation of the Rate of Sedimentation in Reservoir.
- Adjei Tetteh, Accra, Ghana  
B.S., 1959, Michigan State University  
Major: Farm Crops  
Minor: General Botany  
Thesis: Inheritance of the Components of Yield in a Six-row x Two-row Barley Cross.
- Walter John Them, McCall, Idaho  
B.S., 1951, Montana State College  
M.E., 1955, Montana State University  
Major: General Science  
Minor: General Science
- David Reginald Thomas, Corvallis  
B.S., 1960, Oregon State College  
Major: Statistics  
Minor: Mathematics  
Thesis: Multivariate Functions Applied to Long-Range Weather Forecasting.
- Ralph Allen Thompson, Mill City  
B.S., 1960, Oregon State College  
Major: Mechanical Engineering  
Minor: Mathematics—Statistics  
Thesis: A Thermodynamic Study of Energy Absorbed by a Motored Four Cycle Engine with Positive Exhaust Pressure as Applied to Commercial Exhaust Brakes.



- Ralph Marvin Toms, Redding,  
California  
A.B., 1959, Chico State College  
Major: Mathematics  
Minor: Analysis  
Thesis: On Systems of Boolean Equations.
- Lewis McDonald Turner, Jr., Corvallis  
B.S., 1957, Utah State Agricultural College  
Major: Physiology  
Minor: Biochemistry  
Thesis: Oxygen Uptake of Tissue from Normal and Destalked Crayfish (*Pacifastacus* sp.) Bott.
- Nikki Lynn Turner, Corvallis  
B.S., 1961, Oregon State University  
Major: Microbiology  
Minor: Biochemistry  
Thesis: Enzymatic Analysis of Mutant and Wild Type Lactic Streptococcus Organisms Developing on a Selective Medium.
- James Lenex Unger, Corvallis  
B.S., 1953, United States Naval Academy  
Major: Applied Mathematics  
Minor: Analysis  
Thesis: Rational Approximations for Functions of a Complex Variable Obtained by Use of the Darboux Formula.
- Henry Van Calcar, Coos Bay  
B.S., 1957, Oregon State College  
Major: Electrical Engineering  
Minor: Mathematics—Statistics  
Thesis: Multiple-Variable Simulator for Advanced Control System Synthesis.
- Eugene Justin VanderZanden,  
Forest Grove  
B.S., 1959, Pacific University  
Major: Physical Chemistry  
Minor: Analytical Chemistry  
Thesis: Surface Areas of Graphite Regenerated from Graphite Oxide.
- Nelson Leeds Van Kleeck, Dallas  
B.M.E., 1954, George Washington University  
Major: Mechanical Engineering  
Minor: Physics—Materials  
Thesis: A Design of a Furnace for Melting Refractory Metals Using a Plasma Jet Heat Source.
- Orville Chester Vick, Jr., San Jose,  
California  
A.B., 1950, San Jose State College  
Major: General Science  
Minor: Science Education
- William Sacharov Volmer, Clairton,  
Pennsylvania  
B.S., 1946, United States Military Academy  
Major: General Science  
Minor: General Science
- Richard Lee Walton, Santa Ana,  
California  
B.S., 1959, California State Polytechnic College  
Major: Range Management  
Minor: Animal Husbandry  
Thesis: The Seasonal Yield and Nutrient Content of Native Forage Species in Relation to Their Synecology.
- Vivat Wanaraks, Bangkok, Thailand  
B.S., 1959, University of Medical Sciences, Thailand  
Major: General Science  
Minor: General Science
- Jack Lloyd Waud, Corvallis  
B.S., 1955, Oregon State College  
Major: Genetics  
Minor: Plant Pathology  
Thesis: Inheritance of Resistance to Physiologic Races T-1, T-15, T-16, of *Tilletia caries* (D. C.) Tul. and Race L-8 of *Tilletia foetida* (Wallr.) Liro in Hybrids of P.I. 178210 and Elgin Wheat.
- Robert Allen Weaver, Indianapolis,  
Indiana  
B.S., 1956, Butler University  
Major: General Science  
Minor: General Science
- John Allen Welch, Corvallis  
B.S., 1959, Oregon State College  
Major: Chemical Engineering  
Minor: Production Management  
Thesis: The Effects of Frequency and Amplitude in a Pulsed Extraction Column Employing the System Carbon Tetrachloride-Acetic Acid-Water.
- Lawrence Dennis White, Vashon,  
Washington  
B.A., 1957, Western Washington College  
Major: General Science  
Minor: Science Education
- Russell Albert Whitehead, Corvallis  
B.S., 1954, Northland College  
Major: General Science  
Minor: General Science
- John Lee Wilkerson, Corvallis  
B.S., 1959, Oregon State College  
Major: Electrical Engineering  
Minor: Mathematics  
Thesis: Transistor Circuit Design for Optimum Noise Performance.
- Lyman William Winkle, Jr.,  
Kennewick, Washington  
B.S., 1957, The College of Idaho  
Major: Biochemistry  
Minor: Radio Chemistry  
Thesis: Carbohydrate Catabolism in Pea Seeds, *Pisum sativum*, and the Effect of Gibberellic Acid.
- Wallace John Whipper, Turner  
B.S., 1959, Oregon State College  
Major: Soils  
Minor: General Science  
Thesis: Some Physical and Chemical Characteristics of Alkali (*Nomia melanderi*) Nesting Sites.
- Richard Perry Withycombe, Jr.,  
Corvallis  
B.S., 1958, Oregon State College  
Major: Industrial Engineering  
Minor: Psychology  
Thesis: The Use of Process Fraction Defective as a Basis for the Design of X Chart Sampling Procedures.
- John Edward Witty, Parma, Idaho  
B.S., 1957, College of Idaho  
Major: Soils  
Minor: Botany  
Thesis: Grass Opal in Some Chestnut and Forested Soils of Wasco County, Oregon.

Arthur George Wollum II, Corvallis  
B.S., 1959, University of Minnesota  
Major: Forest Soils  
Minor: Plant Ecology  
Thesis: The Role of Certain Nonleguminous Woody Species in the Nitrogen Nutrition of Some Conifer Seedlings.

Donald Jesse Yeager, Redmond  
B.S., 1951, Oregon State College  
Major: Education  
Minor: Health and Physical Education  
Thesis: Neuromuscular Responses of Senior High School Boys.

Gerald Loren Young, Central Point  
B.S., 1959, Oregon State College  
Major: Natural Resources  
Minor: General Science  
Thesis: The South Umpqua Ranger District: A Case Study in Multiple-Use.

John Bosco Yu, Seoul, Korea  
B.S., 1961, Oregon State University  
Major: Civil Engineering  
Minor: Highway Engineering—Mathematics  
Thesis: Investigation of a Two-bay Folded Plate Structure.

Raymond Alfred Zalunardo, Klamath Falls  
B.S., 1960, Oregon State College  
Major: Wildlife Management  
Minor: General Science  
Thesis: The Range and Movements of Mule Deer in a Central Oregon Herd.

Charles Edward Zimmermann, Corvallis  
B.S., 1954, University of Wisconsin  
Major: Farm Crops  
Minor: General Botany  
Thesis: Factors Affecting Pollen Germination and Longevity in Hops, *humulus lupulus* L.

#### MASTER OF AGRICULTURE

Maria Salud Braganza Garcia, Pangasinan, Philippines  
B.S., 1939, University St. Tomas, Philippines  
Fields: Food Science, Fish and Game Management, Agricultural Education

Ernest Irvin Hopp, Puyallup, Washington  
B.S., 1949, Oregon State College  
Fields: Poultry, Agricultural Economics, Agricultural Extension

Mehdi Naficy, Tehran, Iran  
B.S., 1960, Oregon State College  
Fields: Soils, Horticulture, Farm Crops

Peter Munubi Vuyiya, Maragoli, Kenya  
B.A., 1960, University of Cambridge, England  
Fields: Agricultural Education, Dairy and Animal Husbandry, Extension Methods

#### MASTER OF EDUCATION

Althea Esther Adams, Gresham  
B.A., 1952, Holy Names College  
Major: Education  
Minor: Education

Charles C Adams, Jr., Clatskanie  
B.S., 1947, Pennsylvania State University  
M.S., 1949, Oregon State College  
Major: Guidance  
Minor: Psychology

Vincent Dayton Bade, Springfield, Missouri  
B.S., 1958, Oregon State College  
Major: Industrial Arts Education  
Minor: Education

Truman Arvis Baily, Hermiston  
B.S., 1952, University of Idaho  
Major: Guidance  
Minor: Psychology

Allen Dale Barkley, Corvallis  
B.A., 1950, University of Wyoming  
Major: Guidance  
Minor: Psychology

James Burton Barlow, Portland  
B.S., 1953, Lewis and Clark  
Major: Education  
Minor: Education

John Austin Barr, Lamoni, Iowa  
B.A., 1961, Graceland College  
Major: Guidance  
Minor: Psychology

Agnes Matilda Baxter, Salem  
B.S., 1929, Oregon State College  
Major: Health Education  
Minor: Education

Glenn Harold Beier, Salem  
B.A., 1950, Dakota Wesleyan University  
Major: Business Education  
Minor: Education

Byron Ned Bender, McMinnville  
B.S., 1950, Eastern Oregon College  
Major: Education  
Minor: Education

Gilbert Hugh Binnington, Wainwright, Alberta, Canada  
B.S., 1951, University of Saskatchewan, Canada  
B.Ed., 1956, University of Saskatchewan, Canada  
Major: Education  
Minor: General Science

Pearl Lillian Brown, Portland  
B.S., 1955, Oregon College of Education  
Major: Education  
Minor: Education

Mildred Mae Bunch, Gresham  
B.A., 1949, Peru State Teachers College  
Major: Education  
Minor: Education



- Beverly Jean Carlson, Lebanon  
B.S., 1953, Oregon State College  
Major: Education  
Minor: Education
- Cecilia Ann Carroll, Oakridge  
B.S., 1956, Eastern Oregon College  
Major: Guidance  
Minor: Psychology
- Ethel Yvonne Carson, Junction City  
B.S., 1954, Oregon State College  
Major: Education  
Minor: Health and Physical Education
- Donald Lee Charles, Gladstone  
B.S., 1955, Oregon College of Education  
Major: Education  
Minor: Administration
- Vera Mae Cochell, Salem  
B.A., 1939, Pacific College  
Major: Guidance  
Minor: Psychology
- Selma Amelia Cochenour, Lyle,  
Washington  
B.S., 1940, Western Washington College  
of Education  
Major: Education  
Minor: Counseling
- Thomas Wiley Combest, Salem  
B.S., 1957, Oregon State College  
Major: Industrial Arts Education  
Minor: Education
- Robert Duggan Connolly, Jr., Corvallis  
A.B., 1940, Lafayette College  
Major: Education  
Minor: Political Science
- Edith Gaynelle Cota, Corvallis  
B.A., 1956, Linfield College  
Major: Education  
Minor: Education
- Lillias Tanner Crane, Portland  
B.S., 1950, Brigham Young University  
Major: Guidance  
Minor: Psychology
- Burley Boyd Crawford, Emmett, Idaho  
B.A., 1954, College of Idaho  
Major: Education  
Minor: Physical Education
- Alfred Crist, Arlington, California  
B.S., 1948, Denver University  
B.A., 1950, Western Washington College  
Major: Guidance  
Minor: Psychology
- Ronald Clark Currier, Corvallis  
B.S., 1960, Oregon State College  
Major: Industrial Arts Education  
Minor: Education
- Mary Louise Deeney, Salem  
B.A., 1931, University of Montana  
Major: Health Education  
Minor: Education
- Roy Gordon Dennis, Kelso,  
Washington  
B.A., 1930, University of Washington  
Major: Education  
Minor: Education
- Thomas Lloyd Dice, Gresham  
B.A., 1950, University of Saskatchewan,  
Canada  
Major: Guidance  
Minor: Psychology
- Kenneth McColl Dimick, Corvallis  
B.S., 1960, Oregon State College  
Major: Guidance  
Minor: Psychology
- Gerald Charles Droscher, Roseburg  
B.S., 1960, Oregon State College  
Major: Health Education  
Minor: Education
- Mary Ann Sartain Dunn, Corvallis  
B.S., 1958, Oregon State College  
Major: Guidance  
Minor: Psychology
- Dorothy Irene Durkee, Camas,  
Washington  
B.A., 1957, Whitworth College  
Major: Business Education  
Minor: Education
- Ralph John Dyson, Salem  
B.S., 1951, University of Oregon  
Major: Health Education  
Minor: Education
- Eldon Lowell Farner, Albany  
B.A., 1950, College of Idaho  
Major: Education  
Minor: Education
- Lois Elaine Findley, Portland  
B.S., 1957, Oregon State College  
Major: Business Education  
Minor: Education
- James Benton Flake, Taft, California  
A.B., 1946, San Jose State College  
Major: Industrial Arts Education  
Minor: Guidance
- William Despain Fryer, Corvallis  
B.S., 1956, Oregon State College  
Major: Education  
Minor: Administration
- Ray Leonard Garrison, Klamath Falls  
B.S., 1935, Oregon State College  
Major: Education  
Minor: College Teaching
- Merwyn Kay Geerdes, Warren  
B.S., 1958, Oregon State College  
Major: Industrial Arts Education  
Minor: Guidance
- James Burton Grange, Salem  
B.S., 1960, Oregon State College  
Major: Industrial Arts Education  
Minor: Education
- Arnold Richard Gray, Portland  
B.S., 1951, Oregon State College  
Major: Health Education  
Minor: Education
- Althaea James Gurrad, Aberdeen,  
Washington  
B.A., 1943, Eastern Washington College  
Major: Education  
Minor: Guidance

- Jeannette Eldora Hallberg, Watertown, South Dakota  
B.S., 1955, Northern State Teachers College  
Major: Education  
Minor: Education
- Lillian Margaret Harrang, Medford  
B.S., 1940, Oregon State College  
Major: Guidance  
Minor: Psychology
- Robert William Harris, Pacific Grove, California  
B.Mus.Ed., 1955, Montana State University  
Major: Education  
Minor: College Teaching
- Leah Dewey Hatfield, Grants Pass  
B.S., 1960, Oregon State College  
Major: Guidance  
Minor: Psychology
- Margie Jane Herron, Vancouver, Washington  
B.S., 1960, Portland State College  
Major: Education  
Minor: Education
- Carlene Bess Hess, Caldwell, Idaho  
B.S., 1957, Brigham Young University  
Major: Education  
Minor: Education
- Harriet Howell Hinton, Portland  
B.S., 1957, Oregon State College  
Major: Business Education  
Minor: Education
- Edward Martin Hollister, Corvallis  
B.E., 1933, Mankato State College  
Major: Education  
Minor: Social Science
- Nettie Marie Hollowell, Seattle, Washington  
B.A., 1949, McPherson College  
Major: Guidance  
Minor: Psychology
- Ernest LeRoy Hooper, Citrus Heights, California  
B.S., 1957, Oregon State College  
Major: Industrial Arts Education  
Minor: Education
- James Allen Huff, Gilroy, California  
B.S., 1953, Oregon State College  
Major: Education  
Minor: General Science
- Theodore William Ivarie, Jr., Salem  
B.S., 1958, Oregon State College  
Major: Business Education  
Minor: Education
- Frank Marlin Jackson, Portland  
B.S., 1952, Oregon State College  
Major: Education  
Minor: Guidance
- James Mancel Jenkins, Gresham  
B.S., 1959, Portland State College  
Major: Education  
Minor: Social Sciences
- Walter William Jeske, Portland  
B.A., 1937, Dickinson State Teachers College  
Major: Education  
Minor: Education
- Richard Calvin Johnson, Portland  
B.S., 1950, Stout State College  
Major: Guidance  
Minor: Psychology
- Richard Darrel Johnson, Salem  
B.A., 1942, University of Oregon  
Major: Guidance  
Minor: Psychology
- Perry Wayne Jones, Boring  
B.S., 1951, Oregon College of Education  
Major: Education  
Minor: Guidance
- Jarold Arthur Keith, Medford  
B.S., 1956, Oregon State College  
Major: Guidance  
Minor: Psychology
- Virginia Louise Kennedy, Seattle, Washington  
B.Ba., 1944, University of Michigan  
Major: Business Education  
Minor: Education
- Eugene William Killoy, Oregon City  
B.A., 1949, Colorado State University  
Major: Guidance  
Minor: Psychology
- Elizabeth Burke King, San Francisco, California  
A.B., 1958, University of California  
Major: Guidance  
Minor: Psychology
- Cornelius Kliwer, Salem  
B.S., 1958, Oregon College of Education  
Major: Education  
Minor: English
- Abner Anton Korsness, Clackamas  
B.S., 1958, Portland State College  
Major: Education  
Minor: Mathematics
- Tilda Spitzer Kosebud, Albany  
B.S., 1954, State Teachers College, Minot, North Dakota  
Major: Education  
Minor: Education
- Mable Mattison Kula, Albany  
B.A., 1936, University of Nebraska  
Major: Education  
Minor: Education
- Robert Bruce Ladd, Orange, California  
B.S., 1957, Oregon State College  
Major: Industrial Arts Education  
Minor: Education
- Trenna Lea Lakson, Hillsboro  
B.S., 1956, Linfield College  
Major: Business Education  
Minor: Education
- Beth Smith Lee, Portland  
B.A., 1949, Oregon State College  
Major: Business Education  
Minor: Education



- Martha Joy Lierly, Salem  
B.S., 1943, Northeast Missouri State Teachers College  
Major: Education  
Minor: Health Education
- Clarence Robert Lindsay, Redmond  
B.S., 1958, Oregon College of Education  
Major: Education  
Minor: Education
- Lew Francis Luehrs, Vancouver, Washington  
B.S., 1943, University of California at Los Angeles  
Major: Education  
Minor: Guidance
- Berton Eugene McVay, Oregon City  
B.S., 1953, University of Missouri  
Major: Education  
Minor: Physical Education
- James Patrick Mallon, Vale  
B.S., 1952, Eastern Oregon College  
Major: Education  
Minor: Education
- Edward Niels Markusen, Lake Grove  
B.A., 1942, College of Puget Sound  
B.E., 1946, College of Puget Sound  
Major: Education  
Minor: General Science
- Joseph James Matthews, Cardiff, California  
B.S., 1951, University of Oregon  
Major: Education  
Minor: Health and Physical Education
- Theodore Michalec, Lebanon  
B.S., 1959, Cortland State Teachers College  
Major: Education  
Minor: Outdoor Education
- Melvin Clayton Mitchell, Silverton  
B.A., 1951, University of Minnesota  
Major: Education  
Minor: Education
- Clarence Keith Mobley, Ashland  
B.S., 1954, Oregon State College  
Major: Industrial Arts Education  
Minor: Education
- Claude DeVere Morgan, Corvallis  
B.S., 1957, Southern Oregon College  
Major: Guidance  
Minor: Psychology
- Carol Ann Neiger, Salem  
B.S., 1957, Oregon State College  
Major: Business Education  
Minor: Education
- Douglas N Nelson, Portland  
B.S., 1953, Oregon College of Education  
Major: Education  
Minor: Education
- Dean Stanley Nichols, McMinnville  
B.S., 1952, Southern Oregon College  
Major: Education  
Minor: Guidance
- William Jackman Orner, Corvallis  
B.S., 1950, Oregon State College  
Major: Education  
Minor: Education
- Irene Louise Parent, Albany  
B.S., 1939, Pacific University  
Major: Guidance  
Minor: Psychology
- Clifford Mason Parrish, Ventura, California  
B.A., 1957, University of California  
Major: Industrial Arts Education  
Minor: Education
- Gerald Frank Peckover, Gladstone  
B.S., 1952, Lewis and Clark  
Major: Education  
Minor: Education
- Horace Athol Peden, Riddle  
B.S., 1933, Central State, Edmond, Oklahoma  
Major: Education  
Minor: Social Science
- Henry Stewart Pfeifle, Springfield  
B.S., 1951, Oregon State College  
Major: Education  
Minor: Education
- Jerrald Roland Pflug, Turner  
B.S., 1961, Oregon State University  
Major: Health Education  
Minor: Guidance
- Lawrence Amilo Pilosi, Portland  
B.S., 1958, Portland State  
Major: Guidance  
Minor: Psychology
- Robert Earl Porter, Lebanon  
B.S., 1951, Seattle Pacific College  
Major: Education  
Minor: Education
- Roberta Mills Price, Washougal, Washington  
B.A., 1934, Willamette University  
Major: Guidance  
Minor: Psychology
- Clochai Punyasingh, Bangkok, Thailand  
B.S., 1941, Silliman University, Philippines  
Major: Education  
Minor: Science Education
- Carolyn Louise Rayborn, Lebanon  
B.S., 1958, University of Oregon  
Major: Education  
Minor: Health and Physical Education
- Sharon Hinton Rexford, Westfir  
B.S., 1957, Oregon State College  
Major: Business Education  
Minor: Education
- Charles Henry Rice, Corvallis  
B.S., 1940, Oregon State College  
Major: Education  
Minor: Social Science
- Bob Lee Robertson, Portland  
B.S., 1961, Oregon State University  
Major: Education  
Minor: Physical Education
- Donald John Robertson, Portland  
B.S., 1954, Oregon State College  
Major: Industrial Arts Education  
Minor: Education

- James Thomas Ross, Portland  
B.S.E., 1948, Arkansas State Teachers  
College  
Major: Industrial Arts Education  
Minor: Education
- Howard Owen Rowe, Klamath Falls  
B.A., 1953, College of Idaho  
Major: Education  
Minor: College Teaching
- Clifford Francis Saxton, North Bend  
B.S., 1952, Linfield College  
Major: Education  
Minor: Education
- Ben Alferd Schellenberg, Portland  
B.A., 1960, Seattle Pacific College  
Major: Education  
Minor: Guidance
- John Henry Schmid, Redmond  
B.S., 1950, Oregon State College  
Major: Education  
Minor: Agricultural Education—Extension  
Education
- Forest Grant Scott, Coquille  
B.S., 1948, Oregon State College  
Major: Agricultural Education  
Minor: Dairy and Animal Husbandry  
Thesis: An Educational Program to Use in  
the Selection of Sheep.
- William Scrivens, Portland  
B.S., 1958, Portland State College  
Major: Education  
Minor: Social Science
- Charles Richard Shearer, Lebanon  
B.S., 1950, Oregon College of Education  
Major: Education  
Minor: Education
- Chisun Shim, Seoul, Korea  
B.A., 1952, Yonsei University, Korea  
Major: Education  
Minor: Education
- George Andrew Shull, Jefferson  
B.A., 1956, The College of Idaho  
Major: Education  
Minor: Education
- Arnold Sittser, Milwaukie  
B.S., 1953, Oregon College of Education  
Major: Education  
Minor: Administration
- Irving De Smith, Corvallis  
B.A., 1958, Brigham Young University  
Major: Industrial Education  
Minor: Education
- Leonard Charles Smith, Gervais  
B.A., 1957, University of Portland  
Major: Education  
Minor: General Science
- Edward J Spady, Auburn,  
Washington  
B.S., 1951, Walla Walla College  
Major: Industrial Arts Education  
Minor: Education
- Vera LaRene Spady, Gaston  
B.S., 1946, Walla Walla College  
Major: Business Education  
Minor: Education
- Margarethe Eleanor Starnes, Lebanon  
B.S., 1953, Oregon College of Education  
Major: Education  
Minor: Guidance
- Donald Theodore Stensland,  
Monmouth  
B.S., 1955, Linfield College  
Major: Education  
Minor: Health and Physical Education
- William Howard Swegar, Sweet  
Home  
B.A., 1931, University of Dayton  
M.A., 1951, Catholic University  
Major: Guidance  
Minor: Psychology
- Walter Francis Thomas, Redmond  
B.S., 1951, University of Wisconsin  
Major: Guidance  
Minor: Psychology
- Robert James Twa, Lethbridge,  
Alberta, Canada  
B.Ed., 1957, University of Alberta, Canada  
Major: Education  
Minor: Industrial Arts
- June Florette Underwood, Portland  
B.S., 1949, Oregon State College  
Major: Business Education  
Minor: Education
- Margaret Ida Wilder, Corvallis  
B.A., 1940, Montana State University  
B.S., 1958, Oregon College of Education  
Major: Education  
Minor: Education
- Helen Rothwell Wilderman, Portland  
B.A., 1930, University of Oregon  
Major: Guidance  
Minor: Psychology
- Thomas Artell Williams, Corvallis  
B.S., 1955, Oregon State College  
Major: Agricultural Education  
Minor: Agriculture
- Lois Hideko Yamasaki, Kauai, Hawaii  
B.S., 1960, Oregon State College  
Major: Education  
Minor: Guidance—Physical Education
- Louis Zarosinski, Oregon City  
B.S., 1959, Oregon State College  
Major: Guidance  
Minor: Psychology
- William Morgan Zehr, Portland  
B.A., 1932, Bethel College  
Major: Education  
Minor: Audio-Visual Aids
- Orville Wilbur Zielaskowski, Corvallis  
B.S., 1959, Oregon State College  
Major: Education  
Minor: Trade and Industrial Education
- Robert Franke Bradley, Roseburg  
B.S., 1939, University of New Hampshire  
Major: Forest Management  
Thesis: Survival of Planted Douglas-fir  
Seedlings on Severe Sites Using the  
Paper Sheet Mulch Planting Method.



## MASTER OF FORESTRY

- |  |  |
|--|--|
| <p>Leon Jorge Castaños, Mexico, D. F.,<br/>Mexico<br/>B.S., 1959, Escuela Nacional de Agricultura, Mexico<br/>Major: Forest Engineering<br/>Minor: Forest Management</p> <p>Gene Allen Fagerness, Centralia, Washington<br/>B.S., 1961, University of Washington<br/>Major: Forest Management</p> <p>John Clare Hendee, Corvallis<br/>B.S., 1960, Michigan State University<br/>Major: Forest Management</p> <p>Fan Hao Kung, Taipei, China<br/>B.S., 1958, National Taiwan University, China<br/>Major: Forest Management</p> <p>Ralph Brooks Sibley, San Francisco, California<br/>B.S., 1960, Humboldt State College<br/>Major: Forest Management</p> | <p>Charles Kelley Sigler, Corvallis<br/>B.S., 1958, Oregon State College<br/>Major: Forest Management</p> <p>Wendell Curtis Snowden, Middletown, Ohio<br/>B.S., 1961, Michigan State University<br/>Major: Forest Management</p> <p>Robert Snyder, Arlington Heights, Illinois<br/>B.S., 1961, University of Illinois<br/>Major: Forest Management</p> <p>Samuel Vance Stewart, Nelson, Canada<br/>B.S., 1958, University of British Columbia, Canada<br/>Major: Forest Management</p> <p>Hubertus Wachter, Hannover, Germany<br/>Diploma, 1960, University of Gottingen, Germany<br/>Major: Forest Management<br/>Minor: Statistics</p> |
|--|--|

## MASTER OF HOME ECONOMICS

- |  |  |
|--|--|
| <p>Evangelyn Ropp Dow, San Francisco, California<br/>B.S., 1933, Oregon State College<br/>Major: Family Life<br/>Minor: Home Economics Education—Home Administration</p> <p>Savitri Pandit, Baroda, India<br/>B.A., 1948, University of Madras, India<br/>B.S., 1955, University of Washington<br/>Major: Clothing and Textiles<br/>Minor: Home Administration</p> | <p>Eleanor Setsuko Kondo Ream, Provo, Utah<br/>B.A., 1954, Brigham Young University<br/>Major: Clothing, Textiles, and Related Arts<br/>Minor: Family Life and Home Administration</p> <p>Erna Evedna Schmidt, Dallas<br/>B.S., 1948, Bethel College<br/>Major: Clothing, Textiles, and Related Arts<br/>Minor: Family Life—Home Economics Education</p> |
|--|--|
- Marjorie MacKellar Wesche, Nampa, Idaho  
A.B., 1937, Taylor University  
Major: Clothing, Textiles, and Related Arts  
Minor: Home Economics Education

## CHEMICAL ENGINEER

- Stanley Rollin Fields, Canoga Park, California  
B.S., 1951, Oregon State College  
Major: Chemical Engineering  
Thesis: Transient Temperatures and Inelastic Thermal Stresses in Gas-Cooled Perforated Ceramic Cylinders with Internal Heat Generation.

## ELECTRICAL ENGINEER

- |   |   |
|---|---|
| <p>Gerald Dean Ewing, Corvallis<br/>B.S., 1957, University of California, Berkeley<br/>M.S., 1959, University of California, Berkeley<br/>Major: Electrical Engineering<br/>Thesis: Low-Pass to Band-Pass Transformation in Polar Form.</p> | <p>Jack Carter Riley, Portland<br/>B.S., 1943, Oregon State College<br/>M.S., 1950, Oregon State College<br/>Major: Electrical Engineering<br/>Thesis: The Development of a Graphical Technique for the Analysis of the Performance of an Impedance Bridge.</p> |
|---|---|

## MECHANICAL ENGINEER

John Joseph Pearl, Lebanon  
 B.S., 1932, Oregon State College  
 Major: Mechanical Engineering  
 Thesis: Development and Design of Ve-  
 neer Scarfing Machinery.

## DOCTOR OF PHILOSOPHY

- Harvey Aft, Corvallis  
 A.B., 1950, University of Southern California  
 M.S., 1952, College of Puget Sound  
 Major: Organic Chemistry  
 First Minor: Inorganic Chemistry  
 Second Minor: Pharmacology  
 Thesis: The Nuclear Reduction of Certain Pyrimidines with Palladized Charcoal.
- Daniel Richard Anderson, Corvallis  
 B.S., 1957, Idaho State College  
 Major: Organic Chemistry  
 First Minor: Inorganic Chemistry  
 Second Minor: Oceanography  
 Thesis: A Study of the Mechanism of the Abnormal Claisen Rearrangement.
- John Arthur Anderson, Lubbock, Texas  
 B.S., 1952, Colorado State University  
 M.S., 1954, Colorado State University  
 Major: Biochemistry  
 First Minor: Physical Chemistry  
 Second Minor: Cell Biology  
 Thesis: In Vitro Metabolism of *Claviceps Purpurea* (Ergot)
- Arnold Pierce Appleby, Pendleton  
 B.S., 1957, Kansas State University  
 M.S., 1958, Kansas State University  
 Major: Farm Crops  
 First Minor: Plant Physiology  
 Second Minor: Chemistry  
 Thesis: The Influence of Soil Temperature and Soil Placement on the Phytotoxic Properties of EPTC and Other Carbamate Herbicides.
- Robert Ortiz Arias, Coachella, California  
 B.S., 1958, California Polytechnical College  
 M.S., 1960, Oregon State College  
 Major: Entomology  
 First Minor: Plant Physiology  
 Second Minor: Biochemistry  
 Thesis: The *In Vitro* Hydroxylation of Naphthalene-1-C<sup>14</sup> Housefly Microsomes.
- Gaylen Lamb Ashcroft, Logan, Utah  
 B.S., 1953, Utah State University  
 M.S., 1954, Utah State University  
 Major: Soils  
 First Minor: Chemistry  
 Second Minor: General Science  
 Thesis: Gaussian Elimination Technique for Solving the Diffusion Equation for Moisture Movement in Unsaturated Soil.
- John Alfred Beattie, Canberra, Australia  
 B.S., 1950, University of Sydney, Australia  
 Major: Soils  
 First Minor: Geology  
 Second Minor: Chemistry  
 Thesis: Groundsurfaces and Soils in the Willamette Valley, Oregon.
- Dibya Deo Bhatt, Kathmandu, Nepal  
 B.S., 1949, Agra University, India  
 M.S., 1951, Agra University, India  
 Major: Plant Pathology  
 First Minor: Botany  
 Second Minor: Entomology  
 Thesis: Role of Associated Fungi in the Prevention of Grey Mold (*Botrytis Cinerea*) of Strawberries.
- Allan LeRoy Bieber, Branford, Connecticut  
 B.S., 1956, North Dakota State  
 M.S., 1958, North Dakota State  
 Major: Biochemistry  
 First Minor: Organic Chemistry  
 Second Minor: Cellular Biology  
 Thesis: Phospholipid Patterns in the Developing Chick Embryo.
- Thomas Tucker Claudson, Richland, Washington  
 B.S., 1955, University of Washington  
 M.S., 1958, Oregon State College  
 Major: Mechanical Engineering  
 First Minor: Physics  
 Second Minor: Mathematics  
 Thesis: Purification of Zirconium by Solid State Electrolysis and Zone Refining.
- Arlen Durant Davison, Corvallis  
 B.S., 1955, University of Wyoming  
 M.S., 1956, University of Wyoming  
 Major: Plant Pathology  
 First Minor: Botany  
 Second Minor: Entomology  
 Thesis: Factors Affecting the Identification of Races of *Uromyces Phaseoli* (Pers.) Wint. Var. *Phaseoli*.
- Richard Stark Driscoll, Bend  
 B.S., 1951, Colorado State University  
 M.S., 1957, Colorado State University  
 Major: Range Management  
 First Minor: Soils  
 Second Minor: Statistics  
 Thesis: Characteristics of Some Vegetation Soil Units in the Juniper Zone in Central Oregon.
- Noah Clinton England, Myrtle, Missouri  
 B.S., 1956, Arkansas State College  
 M.S., 1961, Oregon State University  
 Major: Genetics  
 First Minor: Physiology  
 Second Minor: Statistics  
 Thesis: Genetic and Environmental Factors Influencing Appetite in Beef Cattle and the Relation of Appetite to Rate and Efficiency of Gain.
- Azimuddin Ahmad Faruqui, Lahore, West Pakistan  
 B.S., 1957, Oklahoma State University  
 M.S., 1959, Oregon State College  
 Major: Chemical Engineering  
 First Minor: Mathematics  
 Second Minor: Physical Chemistry  
 Thesis: Velocity and Temperature Profiles for Turbulent Flow of Liquid-Liquid Dispersions in Pipes.



James Marshall Ford, Mount Vernon,  
Washington  
B.A., 1951, Western Washington College  
M.S., 1952, Oregon State College  
Major: Zoology  
Minor: Genetics  
Second Minor: Botany  
Thesis: The Chromosomes of Northwest  
Pulmonate Snails.

Jack Bruce Goebel, Corvallis  
B.A., 1954, University of Oregon  
M.A., 1956, University of Oregon  
Major: Algebra and Analysis  
First Minor: Applied Mathematics  
Second Minor: College Teaching  
Thesis: On the Algebra of Orthogonal  
Latin Squares.

William David Gorman, Corvallis  
B.S., 1958, University of Illinois  
M.S., 1959, University of Illinois  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Statistics  
Thesis: Potential Expansion of Fresh  
Market Sales as an Outlet for Oregon-  
Produced Fruits and Vegetables.

Henry John Gratkowski, Corvallis  
B.S., 1950, Oregon State College  
M.F., 1951, Yale University  
Major: Plant Ecology  
First Minor: Forestry  
Second Minor: Statistics  
Thesis: Heat as a Factor in Germination  
of Seeds of *Ceanothus velutinus* var.  
*laevigatus* T. & G.

Robert Stanley Halliwell, Lovell,  
Wyoming  
B.S., 1956, University of Wyoming  
M.S., 1959, University of Wyoming  
Major: Plant Pathology  
First Minor: Botany  
Second Minor: Biological Chemistry  
Thesis: Isolation, Purification, Serology  
and Nature of Rose Mosaic Virus (es).

Louie Thomas Hargett, Arlington,  
Virginia  
B.A., 1953, Bridgewater College  
M.S., 1958, Virginia Polytechnic Institute  
Major: Entomology  
First Minor: Plant Pathology  
Second Minor: Zoology  
Thesis: Visual and Olfactory Responses of  
the Horn Fly, *Haematobia irritans* Linn.

Wilford Moser Hess, Nampa, Idaho  
B.S., 1957, Brigham Young University  
M.S., 1960, Oregon State College  
Major: Plant Pathology  
First Minor: Horticulture  
Second Minor: Botany  
Thesis: Studies on Pink Root Disease, *Py-  
renochaeta terrestris* (Hansen) Gorenza,  
Walker, Larson, of Onion.

Hideaki Robert Hikida, Winnipeg,  
Canada  
B.S., 1945, University of Manitoba,  
Canada  
M.S., 1948, University of Manitoba,  
Canada  
Major: Plant Pathology  
First Minor: Horticulture  
Second Minor: Genetics  
Thesis: Races of Bean Rust, *Uromyces  
phaseoli* (Pers.) Wint. var. *phaseoli*, in  
the Willamette Valley.

Laurie Gerald Houck, Tucson,  
Arizona  
B.S., 1952, University of Arizona  
M.S., 1954, University of Arizona  
Major: Plant Pathology  
First Minor: Plant Physiology  
Second Minor: Biochemistry  
Thesis: Factors Influencing Development  
and Control of *Phytophthora fragariae*  
Hickman, the Cause of Red Stele Dis-  
ease of Strawberries.

Deon W Hubbard, Grace, Idaho  
B.S., 1953, Utah State Agricultural Col-  
lege  
M.S., 1954, Utah State Agricultural Col-  
lege  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Business Administration  
Thesis: An Analysis of the Organization,  
Structure, and Use of the Corporate  
Form of Ownership for Farms and  
Ranches in Oregon.

Hamid Mohamed Hussin, Baghdad,  
Iraq  
B.S., 1952, Farouk University, Egypt  
M.S., 1956, University of California at  
Davis  
Major: Plant Pathology  
First Minor: Horticulture  
Second Minor: Statistics  
Thesis: Effects of Mineral Nutrition on  
Development of Crown Gall Caused by  
*Agrobacterium tumefaciens*.

Harvey Myron Hutchings, Corvallis  
B.S., 1951, New Mexico State University  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Statistics  
Thesis: An Economic Analysis of the Com-  
petitive Position of the Northwest Fro-  
zen Pea Industry.

David Winston James, Corvallis  
B.S., 1956, Utah State Agricultural Col-  
lege  
M.S., 1957, Utah State Agricultural Col-  
lege  
Major: Soils  
First Minor: Statistics  
Second Minor: Chemistry  
Thesis: Sorption of  $\text{NH}_3$  in a Dry System  
in Relation to the Chemical Properties  
of Clays and Soils.

Arnold Richard Johnson, Jr., Laramie,  
Wyoming  
B.S., 1951, Fresno State College  
Major: Analytical Chemistry  
First Minor: Inorganic Chemistry  
Second Minor: College Teaching  
Thesis: Differential Spectrophotometric  
Determination of Hafnium in the Pres-  
ence of Zirconium.

Abdul Latif Khidir, Baghdad, Iraq  
B.S., 1948, University of London, England  
Major: Physical Chemistry  
First Minor: Mathematics  
Second Minor: Inorganic Chemistry  
Thesis: Integrated Intensities of Methyl  
Iodide in Carbon Tetrachloride Solution  
and Correction of Slit Error.

- Mark Harry Krackov, Corvallis  
B.S., 1955, University of California  
Major: Organic Chemistry  
First Minor: Biochemistry  
Second Minor: General Science  
Thesis: The Cyclization Reactions of Certain 5-Amino-4-chloro-6-hydrazinopyrimidines with Phosgene.
- Betty Lou Kvarda, Corvallis  
B.A., B.S., 1954, Bowling Green State University  
M.A., 1956, Ohio State University  
Major: Algebra and Number Theory  
First Minor: Analysis  
Second Minor: College Teaching—General Science  
Thesis: Inequalities for the Number of Integers in a Sum of Sets of Gaussian Integers.
- Prithvi Chand Lall, Punjab, India  
B.S., 1950, Government College Hoshiarpur, India  
M.S., 1954, Panjab University College, India  
Major: Physics  
First Minor: Mathematics  
Second Minor: Nuclear Physics  
Thesis: Gamma-Gamma Directional Correlation in Titanium-46 ( $Ti^{46}$ ).
- Denis Peter Lavender, Corvallis  
B.S., 1949, University of Washington  
M.S., 1958, Oregon State College  
Major: Plant Physiology  
First Minor: Forest Management  
Second Minor: Botany  
Thesis: The Growth of Seedlings of Some Coniferous Species in a Controlled Environment.
- William Prescott Lowry, Corvallis  
A.B., 1950, University of Cincinnati  
M.S., 1955, University of Wisconsin  
Major: Meteorology (General Science)  
First Minor: Plant Ecology  
Second Minor: Statistics  
Thesis: The Sea Breeze of Northwest Oregon and Its Influence on Forestry Operations.
- William Bruce McAlister, Corvallis  
B.S., 1949, University of Washington  
M.S., 1958, University of Washington  
Major: Oceanography  
First Minor: Mathematics  
Second Minor: Physics  
Thesis: The General Circulation in the North Pacific Ocean Referred to a Variable Reference Surface.
- Giles Wilson Maloof, San Bernardino, California  
B.A., 1953, University of California  
M.A., 1958, University of Oregon  
Major: Analysis and Applied Analysis  
First Minor: Algebra  
Second Minor: Physics  
Thesis: Differential Changes in the Zeros of Polynomial Operators.
- Joseph Vergara Martinez, Flagstaff, Arizona  
B.S., 1954, Arizona State College  
M.S., 1957, State College of Washington  
Major: Physical Chemistry  
First Minor: Mathematics  
Second Minor: Inorganic Chemistry  
Thesis: Studies of Ultrasonic Dispersion in Gases by the Diffraction of Light.
- Krishnaswami Narayanan, New Delhi, India  
B.S., 1955, University of Delhi, India  
M.S., 1959, Washington State College  
Major: Chemical Engineering  
First Minor: Mathematics  
Second Minor: Physics  
Thesis: Local and Overall Heat Transfer Coefficients in Baffled Heat Exchangers.
- Earl Edward Nelson, Portland  
B.S., 1957, Oregon State College  
Major: Plant Pathology  
First Minor: Botany  
Second Minor: Biochemistry  
Thesis: *Poria weirii* Root Rot of Douglasfir: Survival of the Pathogen and Infection of the Host.
- James Duncan Newstead, Corvallis  
B.S., 1954, University of British Columbia, Canada  
M.S., 1956, University of British Columbia, Canada  
Major: Cellular Biology  
First Minor: Biochemistry  
Second Minor: Zoology  
Thesis: Epithelial Ultrastructure in the Vas Deferens of the Sow Bug, *Porcellio scaber* (Latreille).
- Suresh Siddheshwar Patil, Bombay, India  
B.S., 1955, University of Poona, Bombay, India  
M.S., 1959, Oregon State College  
Major: Plant Pathology  
First Minor: Botany  
Second Minor: Biochemistry  
Thesis: The Relation of Chlorogenic Acid and Total Free Phenols in Potato Plants to Resistance to Infection by *Verticillium albo-atrum*.
- Norman Douglas Potter, Costa Mesa, California  
B.S., 1952, Willamette University  
M.S., 1955, Oregon State College  
Major: Physical Chemistry  
First Minor: Inorganic Chemistry  
Second Minor: Mathematics  
Thesis: The Catalysis by Non-ionic Bases of Radiosulphur Exchange Between Liquid Sulfur Dioxide and Thionyl Chloride.
- Shanker Prasad Pradhan, Kathmandu, Nepal  
B.S., 1951, University of Lucknow, India  
M.S., 1952, University of Lucknow, India  
Major: Physics  
First Minor: Mathematics  
Second Minor: Nuclear Physics  
Thesis: Activation Energies for Impurities in Vanadium from Measurements of Internal Friction.
- Sydney Radinovsky, Winnipeg, Canada  
B.S., 1955, University of Manitoba  
M.S., 1957, University of Manitoba and University of Illinois  
Major: Entomology  
First Minor: Zoology  
Second Minor: Plant Physiology  
Thesis: Biological, Developmental and Behavioral Studies of *Leiodynychus krameri* (Can.) (Acarina: Uropodidae).



- Thillasthanam Seshadri Rajan,  
Madras, India  
B.S., 1947, Agricultural College, Coimbatore, India  
M.S., 1957, Cornell University  
Major: Dairy Technology  
First Minor: Bacteriology  
Second Minor: Chemistry  
Thesis: The Role of Dihydroquercetin as an Anti-oxidant for Some Dairy Products.
- Suchee Ratarasarn, Bangkok, Thailand  
B.S., 1950, Kasetsart University, Thailand  
M.S., 1959, Oregon State College  
Major: Animal Husbandry  
First Minor: Genetics  
Second Minor: Zoology  
Thesis: Heart Rate Patterns in Beef Cattle.
- John Edward Rauch, Morristown, New Jersey  
B.S., 1957, Oregon State College  
M.S., 1960, Oregon State College  
Major: Physical Chemistry  
First Minor: Physics  
Second Minor: Mathematics  
Thesis: Raman Evidence for the Structure of the Hyponitrite Ion.
- Bruce Coburn Richardson, Glenham, New York  
B.S., 1955, San Diego State College  
Major: Organic Chemistry  
First Minor: Biochemistry—Pharmacology  
Second Minor: Physical Chemistry  
Thesis: A Reinvestigation of the Claisen Rearrangement of Allyl *o*-tolyl Ether.
- James Anthony Rock, Corvallis  
B.S., 1953, Michigan State University  
M.S., 1955, Michigan State University  
M.A., 1958, University of Chicago  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Political Science—Statistics  
Thesis: A Theory of Economic Development at Warm Springs Indian Reservation, Oregon.
- Jonathan Nicholas Roth, Albany  
B.S., 1959, Goshen College  
Major: Plant Pathology  
First Minor: Botany  
Second Minor: Biochemistry  
Thesis: Variations in, and the Effects of Vitamins on *Verticillium albo-atrum*.
- Richard Willis Schermerhorn, Auburn, New York  
B.S., 1958, University of Georgia  
M.S., 1959, University of Georgia  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Statistics  
Thesis: Impact of Changing Market Organization and Structure on the Pacific Northwest Canned Fruit and Vegetable Industry.
- Carl Rudolph Schneider, Cambridge, Massachusetts  
B.S., 1956, San Francisco State College  
Major: Analytical Chemistry  
First Minor: Inorganic Chemistry  
Second Minor: Electronics  
Thesis: Determination of Low Level Hydrocyanic Acid in Solution Using Gas-Liquid Chromatography.
- Vernon Earl Schneider, Corvallis  
B.S., 1950, University of Missouri  
M.S., 1960, Purdue University  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Statistics  
Thesis: Factors to Consider in Determining Pricing Policies of Cooperative Bargaining Associations.
- Bernard Carl Seiler, Mount Angel  
B.S., 1956, Oregon State College  
Major: Physical Chemistry  
First Minor: Organic Chemistry  
Second Minor: Mathematics  
Thesis: Mechanism of Interaction of Graphite Oxide and Ammonia Vapor.
- Eugene Walter Seitz, Saskatchewan, Canada  
B.S., 1957, University of Saskatchewan  
M.S., 1959, Oregon State College  
Major: Microbiology  
First Minor: Biochemistry  
Second Minor: Food Science and Technology  
Thesis: Studies on Diacetyl Production by *Streptococcus diacetylactis* (Matuszewski).
- John George Skinner, Corvallis  
M.S., 1958, Oregon State College  
Major: Physics  
First Minor: Mathematics  
Second Minor: Nuclear Physics  
Thesis: Some Dielectric Breakdown Properties of Oxygen with 3-2cm Radiation.
- Franklin Dee Stevenson, Ogden, Utah  
B.S., 1955, University of Utah  
Major: Chemical Engineering  
First Minor: Mathematics  
Second Minor: Chemistry  
Thesis: Vapor Pressures of Hafnium (IV) Iodide, Tungsten (VI) Chloride and Arsenic (III) Oxide by a Metal Diaphragm Technique.
- Paul Teuscher Tueller, Pocatello, Idaho  
B.S., 1957, Idaho State College  
M.S., 1959, University of Nevada  
Major: Range Management  
First Minor: Soils  
Second Minor: Dairy Science  
Thesis: Plant Succession Two *Artemisia* Habitat Types in Southeastern Oregon.
- Nathan Joe Turner, Corvallis  
B.A., 1959, Eastern Washington College of Education  
Major: Plant Pathology  
First Minor: Botany  
Second Minor: Chemistry  
Thesis: Decomposition of Vapam, Sodium-N-Methyl Dithiocarbamate, in Soil.
- Sorasith Vacharotayan, Bangkok, Thailand  
B.S., 1957, North Carolina State College  
M.S., 1958, North Carolina State College  
Major: Soil Fertility  
First Minor: Plant Physiology  
Second Minor: General Science  
Thesis: Correlation of Phosphorus Soil Tests and Forms of Inorganic Soil Phosphorus with Crop Response and Phosphorus Uptake from Aiken Soils.

Harold Watling, Bozeman, Montana  
B.S., 1941, University of Idaho  
M.S., 1944, University of Idaho  
Major: Anatomy and Embryology  
First Minor: Zoology  
Second Minor: Entomology  
Thesis: A Combined Study of the Growth  
of the Grayling (*Thymallus arcticus*)  
and the Development of its Olfactory  
Apparatus.

Robert Godfrey Welch, Cowley,  
Wyoming  
B.S., 1957, University of Wyoming  
M.S., 1958, University of Wyoming  
Major: Agricultural Economics  
First Minor: Economics  
Second Minor: Statistics  
Thesis: An Analysis of the Financial  
Structure and Insurance Practices for  
Selected Types and Sizes of Oregon  
Farm Firms.

James Richard Welty, Corvallis  
B.S., 1954, Oregon State College  
M.S., 1959, Oregon State College  
Major: Chemical Engineering  
First Minor: Mechanical Engineering  
Second Minor: Mathematics  
Thesis: Design, Construction, and Calibra-  
tion of a High-Temperature Calorimeter;  
High Temperature Thermodynamic Prop-  
erties of Selected Inorganic Compounds.

Robert Roderick Wheeler, San Luis  
Obispo, California  
B.S., 1952, Colorado State University  
M.S., 1955, Oregon State College  
Major: Animal Nutrition  
First Minor: Physiology  
Second Minor: Statistics  
Thesis: Evaluation of Various Indicator  
Techniques in Estimating Forage Intake  
and Digestibility by Range Cattle.

James Dickinson Wheelock, Bellevue,  
Washington  
B.S., 1951, Oregon State College  
M.A., 1956, Oregon State College  
Major: Applied Mathematics  
First Minor: Analysis  
Second Minor: Physics  
Thesis: An Approximate Solution to the  
Problem of Random Flights in a Euclid-  
ean Space of  $N$  Dimensions.

Robert Edgar Wiman, Corvallis  
B.S., 1957, Montana State College  
M.S., 1961, Montana State College  
Major: Organic Chemistry  
First Minor: Physical Chemistry  
Second Minor: College Teaching  
Thesis: Isolation and Identification of  
Certain Toxic Compounds in a Fraction  
of Kraft Mill Waste.



# Commissions

## Department of Air Science

### *Second Lieutenant*

Stephen Frank Altick  
Gerald Roger Bloodgood  
Jerome Dean Dilling  
David Roland Evans  
Robert Evan Evans  
William Marvin Faust  
James Marcus Galyen  
James Henry Hamner  
Daniel Kimble Harmon  
Martin Stephen Hillman

Darrell Curtis Horn  
Bruce Rae Johnson  
Gary Dennis Lape  
Michael Jeane Lents  
Robert Joe Lovretich  
Ronald Harold Mantei  
Roderick Dean Martindale  
Thomas Wayne McGowan  
Michael Edward Mulligan  
Tsuyoshi Onuma

John Milton Paul  
Richard Paul Porter  
Ray Lum Rider  
Irl Dale Robinson, Jr.  
David George Rongerude  
David Crowder Rowe  
Kenneth Alan Schmitz  
Clayton Nowlin Smith  
Richard Arvin Walker  
Gary George Welch

## Department of Military Science

### *Second Lieutenant*

Paul Gaynor Adams  
Thomas James Allen  
Robert Cowan Archibald  
\*John Michael Baird  
Elvis Gordon Barker  
Ramon Murray Barnes  
John Anthony Benvenuto  
Gordon Allen Brynildsen  
Charles Edward Buxton  
John Douglas Canatsey  
Bruce Donald Carlson  
Andrew Innto Chang  
Melvin Lester Cooper  
Roy Paul Cypher  
Edward Leonard Dito  
Gary Ray Edelbrock  
Dwight Edward Fletcher  
Stuart Wallace Fors  
Harold Alan Frisch

Fred Wilbur Greene  
James Eltinge Grinnell  
Jack Irvine Hamilton  
Charles Bernie Hammerstad  
David Lee Heyman  
Lynn S Hill  
Rowan Carl Hinds  
Robert Leo Holland  
Jerome Jess Jacoby  
Eldon James Jager  
Gerald James Jansen  
David Conrad Klick  
Ronald Hisaji Koga  
Samuel Wallace Lee  
Carl David Martin  
Ronald Harold Martin  
Jack Robin McConnell  
William Ross Myers  
Richard Wayne Parlee

Forrest Nelson Pickett  
Stephen Wright Pierson  
Richard Stowell Reid  
David Franklin Riley  
Gerald Franklyn Roberts  
Robert Stanley Rolfness  
Jay Giovanni Romiti  
Donald Hudson Rosenberg  
Gary Lee Schneider  
Michael Frederick Seppa  
Robert LeRoy Sheldon  
Stanley Carl Simson  
William Leo Sullivan  
Harold Gene Thornton  
John Avery Turner  
Jim Bill Wallace  
James Alfred Wallin  
Kenneth Frederic Weleber  
Gary Lee Zwicker

## Department of Naval Science

### *Ensign (Navy)*

George Noel Arthur  
Kenneth Eugene Ashman  
James John Auburn  
Steven Michael Baker  
Alfredo Benjamin Barrera  
Laurance Arthur Bissonnette  
Edward Loren Cantrall  
Marcellus Weber Cave  
Donald Clark Chambers  
Henry Dalton Crowhurst  
Lynn Hurst Curtis

David Westley Dahl  
Nolan Jack Fontenot  
Dale Marion Gallaher  
Carl Wilson Gregory  
Michael Keith Hanson  
Stephen Edward Hoag  
Horst Jeddelloh  
James Lee Jones  
Lynn Clifford Kehrli  
Scott Heim McKean  
John Sidor Mendicino  
Jack Trask Norton, Jr.

William Guald Preston  
James Vanner Ramsdell, Jr.  
Paul Robert Reussille, Jr.  
James Earl Rich  
Vernon Lynn Rifer  
Glen Reid Scheuermann  
Thomas Osborne Schooley  
Marshall Colter Stevens  
William Earl Warren, Jr.  
John Allen Weigant  
Dennis Jay Wellman

### *Second Lieutenant (Marine Corps)*

Lowell Erskine Austin, Jr.  
Maurice Ray Banning  
Robert Edward Garner

Harry Steven McCue  
Myron Harry Nordquist  
\*Michael Hugh Vidos

Leslie Anthony Williams  
Thomas Bryan Woolcott

### *Commissioned By Headquarters, U. S. Marine Corps*

Robert Martin Leidig

Kaye Kent Manchester

\* Will receive baccalaureate degree on June 3, 1962, but will not be commissioned until completion of additional requirements in summer, 1962.





# Honors and Distinctions

## Honor Societies

### Phi Kappa Phi

Spring 1962

Phi Kappa Phi, national scholastic honor society, founded at the University of Maine in 1897, recognizes and promotes scholarship in all fields, the liberal arts and sciences as well as professional education. The following list includes those students elected in May 1962 as juniors, eligible for initiation during their senior year, and seniors and graduate students. Members of the Class of 1962 elected as juniors in April 1961 were listed in the program for the ninety-second Commencement.

#### JUNIORS

Beatrice Irene Belt  
Shirley J. Brown  
Gilbert Wayne Butler  
Gerald August Carlson  
Jerry Joel Dick  
Diane Mabel Dietrich  
Margaret Rose Gates  
Linda Susan George  
Susan Lynne Gill  
Rose Ann Goodman  
Donald Larry Graves  
Larry Washburn Hiron  
Janice Bone Hocken

John Alden Hocken, Jr.  
Frederick Edwin Hopper  
Paul Frederick Hudrlik  
Gary Lee Hundley  
Kent Lee Kirkland  
Marvin Wayne Lowell  
Jan Marie Marquiss  
Timothy William Martin  
Joseph William Nibler  
David Clague Oehling  
David Harrison Paup  
Mary Margaret Pugh

Donna Elizabeth Pyle  
Jeffrey Noyes Roehm  
Peter Carlton Scott  
George Edward Seymore  
Gerald William Silke  
Joyce Ann Sisseck  
Robert Lee Steele  
John Gilbert Struve  
Joseph Tadashi Tateyama  
Richard Gordon Weleber  
John Harlan Wilkinson  
Gordon Lee Wilson

#### SENIORS

Nancy Gue Adams  
Judith Dianne Atwood  
Charles Donald Baker  
Ramon Murray Barnes  
Jenny Louise Bartells  
Richard Allen Bartsch  
Susan Baumgartner  
David Bishop Bell  
Susan Marie Boennighausen  
Beverly Jean Bower  
Sue Mary Briggs  
Donald Lee Brockway  
William Hooper Brown  
Gary Manford Buford  
Charles Edward Buxton  
Sandra Kay Buxton  
Patricia Ann Carroll  
James Ernest Cathey  
Barbara Ann Cole  
James Franklin Conley  
William Joseph Corcoran  
Lawrence Richard Cron  
Warren Lewis Dalziel  
Douglas Raymond Daniels  
Peter Max deLaubenfels  
Donna Irene Dibblee  
Russell Grover Dix  
Joan Mildred Dolby  
Robert T. Elmer  
Gerald Iven Findley  
Janet Elizabeth Fisher  
Charlotte Karen Imes Fox  
Teruo Fujinaga  
Douglas Bird Gilson

Patricia Lee Green  
Phillip Martin Gregg  
Dale Leroy Harmer  
Jeanne Beverly Hawley  
Helen Dyer Hemingway  
Ralph Werner Hendrickson  
Carlene Frances Hise  
Anne Louise Hofmann  
Keith Leroy Hull, Jr.  
Robert D. Hungerford  
Janet Ann Johnson  
Karen Johnson  
Janet Lou Jones  
Joan Lee Kallberg  
Clyde Baldwin Kernek  
Judith Snyder Kimmey  
Michael Shera Kline  
Lee Anne Knechtel  
John Raymond Landon  
Donavin Adair Leckenby  
Mavis Louise Malbon  
Janet Pattie Mann  
John Stuart McAlpine  
John Leonard McGonegal  
Scott Heim McKean  
Patricia Jo McQuaid  
Jackee Ruth Mehl  
John Sidor Mendicino  
Myron Ellis Miles  
Sheila Marie Miles  
Albert Enos Miller  
Robert Eldon Miller, Jr.  
Keith Arnold Mobley

James Robert Morrow  
Grant Thomas Morgan  
Victor Alan Mullett  
Ronald Eugene Murphy  
Wallace Donovan Muzzy, Jr.  
Reba Jo Nelson  
Myron Harry Nordquist  
Sharon Louise Norris  
Robert Emmett O'Leary  
Ernest Evern Parker  
Marilyn Jean Parsons  
Jean Louise Penrose  
Lawrence Andrew Petersen  
William Durham Platt  
Edward Robert Powell  
Walter Edman Powers  
Richard Stowell Reid  
Donald Hall Risk  
Frank Alan Schmittroth  
Myrna J. Pershall Smith  
Susan Margaret Smith  
Keith Bernard Snyder  
Tom Alvin Stone  
Donald John Stoops  
Elizabeth Alt Strauch  
Darlene Shizuyo Tamura  
Joseph Martin Teeter  
Jack Leo Terzenbach  
Bruce Alan Tichenor  
Wayne Eugene Tonack  
Martha Anna Tubach  
Eugene Finley Wirsig  
Lynda Ann Wright

#### GRADUATE STUDENTS

*Ph.D. Degree Candidates*

Harvey Aft  
John Alfred Beattie  
Allan LeRoy Bieber  
Lamar William Coleman  
Jack Bruce Goebel  
William David Gorman

Henry John Gratkowski  
Harvey Myron Hutchings  
David Winston James  
Abdul Latif Khidir  
Betty Lou Kvarda

Prithvi Chand Lall  
Giles Wilson Maloof  
Krishnaswami Narayanan  
James Duncan Newstead  
John George Skinner

### M.A. and M.S. Degree Candidates

Gilbert Hugh Binnington	Arthur William Goodearl	Ailsa Evelyn McEachran
William Bartholomew Carolan	Helen Hackett	Kathryn Orme
Wynferd Ray Chilton	John Franz Hall	Gary Boyd Pitman
Edith Gaynelle Cota	Richard Joseph Hanson	Karen Joyce Roberts
George Frank Crandell	Margaret Lillian Harrang	William Lee Ryan
John Edward Dever, Jr.	John Clare Hendee	Priscilla Howland Saunders
Oren Wesley Dixon	Harriet Howell Hinton	Harold Louis Sawyer
Susan Jane Dobson	Robert Lawrence Holton	Edmond Lee Sing
John Andrew Dorsch	Ernest I. Hopp	William Howard Swegar
David Alex Emery	Jarold Arthur Keith	Nikki Edwards Turner
Verna Louise Engstrom-Heg	Helen Heese Lamprecht	Robert James Twa
Robert Imre Gara	Hernan Villanueva Lopez	Henry Van Calcar
Leticia Pangilinan Gomez	William Harry McCluskey	Richard Lee Williamson

### FACULTY

John Ritchie Cowan

Earl William Wells

## Sigma Xi

The national Society of the Sigma Xi seeks to encourage original investigation in science, pure and applied, including mathematics, physics, chemistry, astronomy, sciences of the earth, biology in its various branches including psychology, anthropology, medicine in its various branches, engineering in its various branches, and other closely allied fields.

### Elections 1962

#### FULL MEMBERS

Albert Duane Addleman	Herman Carl Forslund	Richie Howard Lowe
Hari C. Agarwal	Robert Imre Gara	William Harry McCluskey
Michael Donald Atkins	Ralph Garren, Jr.	Walter Meyer
Frank Marshall Beer	H. V. Gopalakrishna	John Glenn Mingle
Loran Lamoine Bieber	Henry John Gratkowski	Marvin Leonard Montgomery
Hugh Clark Black	Lise Hedberg	James Duncan Newstead
Albert George Canaris	Robert Lee Howard	Roger Dean Olleman
Gary Lawrence Carlberg	Linwood Eugene Johnson	Sydney Radinovsky
Henrietta Laing Chambers	Hal Joseph Kelly	John Charles Ramsey
Kim K. Ching	Walter Herbert Kennick	Dale W. Richardson
Myron George Cropsey	Ulo Kiiigemagi	Yasuharu Sekizawa
Christen Theodore Dyrness	Walter Mark Kliewer	Ian J. Tinsley
Floyd Elroy Ellertson	Leland Murray Larsen	James Richard Welty
David Gene Fellin	Levyburn Fred Lewis	Charles Edward Wicks
	James Chester Looney	

#### ASSOCIATE MEMBERS

Franklin Roosevelt Ampy	Harold LeRoy Hansen	James Vanner Ramsdell, Jr.
Aage Bernard Anderson	Frank Kent Hoornbeek	James Edward Reynolds
Wilber Winston Baker	Keith Bunker Jenkins	Robert Harvey Ruth
Hiyam Bairakdar	Mabel Marguerite Kief	Richard Franklin Schmitz
Richard William Baldwin	Julia Ann Kennedy Krackov	James Maurice Self
Joan Dunkel Beltz	Courtney Robert Lantz	Chung Yi Shen
Gerald Andrew Benedetti	Benjamin Wing Lei	Mouaffac Shakashiro
William Riley Bennett	Pen H. Li	Karin Ann Smith
Norman Fredrick Bull	Gary Allen McIntyre	Sardara Singh Sohi
Richard Charles Bull	Laurence David Mendenhall	Frank Curtis Sorensen
Roy Elliott Chapin	Phil Harry Miller	Nelson Eugene Stewart
Verne Merrill Chapman	Zeinab Shehata Mohasseb	Gerald G. Still
Thomas Tucker Claudson	Charles Otis Morris	Robert Fenton Strand
Andre Georges Coche	Thomas Edward Nelson	Vernon Hugo Swanson
Ronald Gibson Coffey	Allan Gillis O'Bergh, Jr.	David Reginald Thomas
Russell Everett Curtice	Richard Carl Ostrowski	Ralph Allen Thompson
Milton Lee Dean	John Neal Owens	Jan Ross Turner
John Edward Dever, Jr.	James Vernon Patton	Richard Lee Wallace
Ahmed Adel Ismail El-Badawi	Tom Gordon Petersen	Jack Lloyd Waud
Michael Allen Fosberg	Carmen Elaine Phillips	David Lee Willis
Len Joseph Gaweł	Gary Boyd Pitman	David Franklin Wilson
Stanley Ernest Geel	John Edwin Postlewaite	Raymond Alfred Zalunardo
	Thillasthanam Seshadri Rajan	



# Honors and Awards

## E. A. Cummings Awards—

*Freshman First Honor:*  
Dale George Shuman

*Honorable Mention:*  
Michael Dale Dennis  
Dennis Philip Aalfs

*Sophomore First Honor:*  
Erol Mumin Kirayoglu

*Honorable Mention:*  
James Boynton Johnson  
Stephen Ellis Binney

Presented each spring in the proportions of \$50, \$30, \$20, and \$10 respectively to the man of highest standing in the senior, junior, sophomore, and freshman years; based on (a) scholarship, (b) success in student activities, (c) qualities of manhood, and (d) qualities of leadership; a memorial to Edward A. Cummings.

*Junior First Honor:*  
David Clague Oehling

*Honorable Mention:*  
Joseph William Nibler  
John Gilbert Struve

*Senior First Honor:*  
Lawrence Richard Cron

*Honorable Mention:*  
David Bishop Bell  
Russell Grover Dix

## Clara H. Waldo Awards—

*Freshman First Honor:*  
Susan Marie Gore

*Honorable Mention:*  
Nancy Lou Austin  
Terry Lee Smith

*Sophomore First Honor:*  
Jimi Kay Minti

*Honorable Mention:*  
Barbara Ann Bennett  
Myrna Josephine Rantala

Presented each spring in the proportions of \$40, \$30, \$20, and \$10 respectively to the woman student of highest standing in the senior, junior, sophomore, and freshman years; based on (a) scholarship, (b) success in student activities, (c) qualities of womanhood, and (d) qualities of leadership; a memorial to Clara H. Waldo.

*Junior First Honor:*  
Susan Lynne Gill

*Honorable Mention:*  
Jan Marie Marquiss  
Portia Cowley Herrington

*Senior First Honor:*  
Barbara Kay Altpeter

*Honorable Mention:*  
Barbara Suzanne Goeller  
Helen Louise Murray

## Lipman Wolfe Awards—

*Sophomore First Honor:*  
Carol Marie Lewis

*Honorable Mention:*  
Theodore Roosevelt Kinney  
William Allen Dishar

*Junior First Honor:*  
Gerald August Carlson

*Honorable Mention:*  
Edmund Richard Bodyfelt  
Shirley Jean Brown

*Senior First Honor:*  
Jeanne Beverly Hawley

*Honorable Mention:*  
Bruce Rae Johnson  
Jean Louise Penrose

Presented in the proportions of \$50, \$30, and \$20 respectively to the man or woman of highest standing in the senior, junior, and sophomore classes based on: (a) scholarship, (b) qualities of manhood or womanhood with special emphasis on unselfishness and kindness, (c) qualities of leadership, and (d) contribution to campus welfare.

## Chi Omega Award.....Leora Gwen Connarn

Annual award of \$25 to the senior woman who is adjudged by a college committee on honors and awards to approach most nearly an ideal of intellect and spirituality and to have exerted the most wholesome influence upon her associates.

## Dubach Awards.....George Tewfic Abed, Lowell Erskine Austin, Jr., James Robert Dodge, David Conrad Klick, Myron Harry Nordquist

Presented annually by Oregon State Chapter of Blue Key to five graduating senior men outstanding in perpetuation of high ideals and unselfish service to Oregon State University, in honor of Dr. U. G. Dubach, dean of men, 1913-1947; names are inscribed on plaque in foyer of Library.

## Beatrice Hamilton Awards.....*Freshman:* William Henry Hubbard *Sophomore:* Sue Ann Sturgis

\$50 each to a freshman and a sophomore (man or woman) who are one-half self-supporting and who are adjudged to be making most purposeful progress toward useful and active citizenship; a memorial to Beatrice Hamilton, mother of W. D. Hamilton, '15.

## MacKenzie Blue Key Memorial Award.....David Conrad Klick

In memory of Donald Wilson MacKenzie, class of 1953, to any man student who exhibits outstanding qualities and ability as a student leader and in service and loyalty to the institution. Cash and plaque.

## Drucilla Shepard Smith Award.....Ernestine Harriet Sherman

Income from \$500 to the senior woman having highest scholastic standing during the eight terms preceding her selection for this award; not given to any student who receives another award during the same year; a memorial to Drucilla Shepard Smith, formerly of Polk County, Oregon, established by her son, Mr. John E. Smith, '02.

## School of Humanities and Social Sciences

Alpha Chi Omega Cup.....	Margaret Gates, Sandra O'Neal
Barometer Award .....	Sharon Kay Putman
	<i>Honorable Mention:</i> Richard Gordon Hansen, Evelyn Anne Oveson
Barometer Ad Trophy.....	William Raymond Nelson
Claude E. Ingalls Award.....	James Robert Dodge
Forensic Directors' Award.....	Diehl Pyfer
"Prof Mac" Memorial Plaque.....	Robert Johnson Wassman, Jr., Ellen Elizabeth Lucas
Sigma Delta Chi Scholarship Award.....	Margarette Alyce Blackburn
	<i>Honorable Mention:</i> Janet Elizabeth Fisher, Charlotte Karen Fox
Sigma Delta Chi Citation.....	Richard Norman Colby
Sigma Delta Chi Awards of Merit.....	Anthony DeGray Birch, Stuart Alan Couper, Janet Elizabeth Fisher, Charlotte Karen Fox, David Alan Pahl, Forrest Nelson Pickett, Don Allen Wrenn

## School of Science

American Institute of Chemists.....	Linda Ann Wright
Phi Lambda Upsilon.....	Philip J. Bernard
Phi Sigma.....	<i>Graduate:</i> Arnold Pierce Appleby <i>Undergraduate:</i> Elizabeth Ann Bogart
Pi Mu Epsilon.....	Paul Frederick Hudrlik, Gary James Foru
Sigma Pi Sigma.....	Henry A. Moshberger

## School of Agriculture

Al Oliver Award.....	Howard Hilstrom
Alpha Gamma Rho Award.....	Gerald Carlson
Alpha Zeta Award.....	Thomas D. Case
Bill Lenderking Award.....	Kenneth S. Hilderbrand, Jr.
Burpee Award in Horticulture.....	Richard Neilson
Dad Potter Award.....	George Manning
Danforth Summer Scholarship Award.....	Edwin L. Gustafson
Ernest H. Wiegand Award.....	Johanna M. Landsberg
F. F. McKenzie Award.....	Myron E. Miles
Gerber Undergraduate Award.....	Johanna M. Landsberg
Hanson Poultry Award.....	Larry G. Wrolstad
Northwest Canners and Freezers Association Award.....	Kenneth S. Hilderbrand, Jr.
Paul Carpenter Award.....	James G. Youde
Judging Team Awards—	
Meats.....	Fred Schrepping, Nancy Albin, Sarah Busse
Dairy Products.....	Larry A. Edwards, Harris H. Hansen, Lawrence H. Smith
Dairy Cattle.....	
Pacific International.....	Eldon Boge, John Chandler, Tom Thayer, Jack Lynch
National.....	Ed Hemenway, Merle Peters, Mike Seppa, Eldon Boge
Grand National.....	Carlos Lobo, Jack Lynch, Tom Thayer, Ray McQueen
Livestock—	
Pacific International and Grand National.....	Myron E. Miles, Robert E. Miller, Ronald D. Daugherty, William P. Danskine, Jerry W. Harms, Donald H. Burkhart

## School of Business and Technology

Business and Technology Outstanding Senior Award.....	<i>Man:</i> Merwyn C. Powell <i>Women:</i> Sandra A. O'Neal, Suzanne M. Sasaki
Oregon Society of Certified Public Accountants' Award.....	Clifford E. Yost, Jr.
Phi Chi Theta Awards.....	<i>Freshman:</i> Elizabeth L. Yundt <i>Senior:</i> Sandra A. O'Neal
UBEA-Smead Award.....	Karel M. Sinclair
Wall Street Journal Award.....	Larry Neil Plumley

## School of Education

Kappa Delta Pi Award.....	Judy Ullman Hockett
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## School of Engineering

American Institute of Chemical Engineers Sophomore Award.....	Gary Lee Hundley
American Institute of Electrical Engineers Award, Student Papers.....	Maurice E. Cookson, James A. Haefer
American Institute of Electrical Engineers Award, Outstanding Senior.....	Dale Fisk



American Society of Civil Engineers, Student Chapter Award.....	Roy J. Repak
American Society of Mechanical Engineers Awards.....	First Prize: Phillip D. Neidhart Second Prize: LeRoy E. Cothrell
American Society For Testing Materials Prize Awards: Raymond W. Gifford, Charles O. Morris, James H. Van Sant, Jr., Laurence M. Wilson	
Institute of Aeronautical Sciences Award.....	Curtis E. McCann
Hamilton Watch Company Award.....	Curtis E. McCann
Industrial Press Award.....	Robert K. Bennett
Machinery's Award.....	Grant Morgan
Pi Tau Sigma Award.....	Erol Kirayoglu
E. C. Starr Awards.....	Maurice E. Cookson, James A. Haefler
Tau Beta Pi Essay Award.....	Kenneth Ashman
The Institute of Radio Engineers Award, Outstanding Senior.....	James A. Haefler
Eta Kappa Nu, Outstanding Sophomore.....	Pedro Janowitz
IRE Papers Contest, Portland Section.....	First Prize: James M. Comstock Second Prize: Eugene V. Ochs Third Prize: Maurice E. Cookson and James A. Haefler

### School of Forestry

Annual Cruise Cup.....	Leland L. Myers
Kelly Axe Award.....	Orin F. Palmer
William M. Eskew Memorial Award.....	George E. Ward
Senior Scholarship Plaque.....	Lawrence R. Cron
Xi Sigma Pi Plaque.....	Edmund R. Bodyfelt

### School of Home Economics

William H. Danforth Leadership Training Scholarship.....	Barbara Knechtel
Danforth Award for Home Economics College Seniors.....	Jean Branstator
A. Grace Johnson Memorial Award.....	Donna Baker
K. Ethel Lathrop Award.....	Jackie Jo Dick
Minnie E. Lee Award.....	Ellen Schoenborn
Omicron Nu Freshman Award.....	Susan Gore
Omicron Nu Plaque.....	Jean Penrose
Eleanor Trindle Memorial Award.....	Margaret K. Hansen, Beverly Butts

### School of Pharmacy

Bristol Laboratories Award.....	Carol K. Hisatomi
Kappa Psi Award.....	Carol K. Hisatomi
Johnson and Johnson Award.....	Gordon D. Elwood
Lambda Kappa Sigma Scholarship Key.....	Darlene S. Tamura
Linn-Benton Pharmaceutical Association Award.....	James H. Bennett
McKesson and Robbins Award.....	David B. Bell
McKesson and Robbins American Pharmaceutical Association Presidential Plaque.....	Donald Medeiros
Merck Awards.....	Pharmaceutical Chemistry: Allen Ando
Oregon Branch, American Pharmaceutical Association Awards.....	Jerry Bernardi, John McGonegal
Northwestern Wholesale Drug Award.....	All fifth-year seniors
Portland Retail Druggists Association Plaque.....	David B. Bell
Rexall Trophy.....	Brian Yano
Rho Chi Award.....	John E. Jory, Bradley V. Clineschmidt
Western Drug Supply Award.....	All fifth-year seniors
Senior Class Service Award.....	Richard W. Parlee

### Air Force Reserve Officers Training Corps

Distinguished Air Force ROTC Graduates.....	Stephen F. Altick, James H. Hamner, Bruce R. Johnson, Michael E. Mulligan, John M. Paul, Irl D. Robinson, Jr.
Air Force Association Silver Medal Award.....	John M. Paul
American Legion Achievement Medal.....	Bruce R. Johnson
Benjamin H. Nichols Award of Merit.....	Harlin C. Jensen, Michael R. Lee
Convair Cadet Award.....	Stanley W. Bevens

Department of Oregon Reserve Officers Association Medal.....	Michael E. Mulligan
Department of Oregon Reserve Officers Association Award.....	James H. Hamner, Stephen F. Altick, Irl D. Robinson, Jr.
Chicago Tribune Gold Medal Awards.....	Bruce R. Johnson, James E. Sehorn
Chicago Tribune Silver Medal Awards.....	Terry R. Freund, Roderick D. Martindale
Oregon Sons of the American Revolution Award.....	Irl D. Robinson, Jr.
The Order of Silver Wings Medal.....	<i>Sophomore:</i> Gilbert M. Leinonen <i>Freshman:</i> Porter C. Leighton
The Order of Silver Wings Fourragere.....	<i>Sophomore:</i> Lloyd V. Howard <i>Freshman:</i> Gil D. Tolan
Arnold Air Society Award.....	Michael R. Lee
Scabbard and Blade Medals.....	<i>Sophomore:</i> Arthur F. Deardorff <i>Freshman:</i> Peter J. Walz
Scabbard and Blade Ribbons.....	<i>Sophomores:</i> Lloyd V. Howard, Peter A. Lossner, Stephen E. Randall <i>Freshmen:</i> Richard E. Hafenfeld, Claude F. Hough III, James W. Lehman
Boeing Award.....	Theodore R. Kinney, Jr.
National Security Essay Awards.....	Vernon R. Malen, John S. Pease, Roger E. Schoenborn

### *Army Reserve Officers Training Corps*

Distinguished Military Graduates.....	Cadet First Lt. Paul G. Adams, Cadet Lt. Col. Robert C. Archibald, Cadet Captain Elvis G. Barker, Cadet First Lt. Ramon M. Barnes, Cadet Lt. Col. Douglas H. Bashor, Cadet Lt. Col. John A. Benvenuto, Cadet First Lt. John D. Canatsey, Cadet Major Dwight E. Fletcher, Cadet Lt. Col. Stuart W. Fors, Cadet First Lt. Paul E. Gjeldel, Cadet Captain Fred W. Green, Cadet Major James E. Grinnell, Cadet Captain David L. Heyman, Cadet Lt. Col. Rowan C. Hinds, Cadet Captain Ronald H. Koga, Cadet Lt. Col. Samuel W. Lee, Cadet Captain Carl D. Martin, Cadet Lt. Col. Ronald H. Martin, Cadet Lt. Col. William R. Myers, Cadet First Lt. Richard W. Parlee, Cadet Captain Richard S. Reid, Cadet Captain Harold G. Thornton, Cadet First Lt. John A. Turner, Cadet Col. Jim B. Wallace, Cadet Lt. Col. Kenneth F. Weleber, Cadet First Lt. Gary L. Zwicker
Association of the United States Army Medal	Cadet Sergeant First Class Paul E. Jarvis (Signal Corps) Cadet Corporal Curtis Mikkelsen (Infantry) Cadet Second Lieutenant Roger A. Johnson (Artillery)
Society of American Military Engineers Medal.....	Cadet Captain Richard S. Reid (Engineers) Cadet First Sergeant John H. Wilkinson (Engineers)
Society of American Military Engineers Award	Cadet Major Leonard W. Kearney (Engineers)
American Legion Achievement Medal.....	Cadet Major Larry W. Hicks (Infantry)
Daughters of the American Revolution Medal.....	Cadet Corporal Dale D. Foresee (Infantry)
Benjamin H. Nichols Memorial Award.....	Cadet Corporal Richard K. Lundgren (Infantry) Cadet First Sergeant Richard A. Dexter (Engineers)
Scabbard and Blade Medals.....	Cadet Private Donald G. Page (Artillery) Cadet Private First Class James E. Douglas (Signal Corps)
Scabbard and Blade Ribbons.....	Cadet Private First Class Stephen E. Binney (Engineers) Cadet Corporal William S. Disher (Signal Corps) Cadet Private Kenneth R. Anderson, Jr. (Artillery) Cadet Private Blair K. Blacker (Infantry) Cadet Private First Class Edwin L. Charlesworth (Signal Corps) Cadet Private Ernie T. Anderson (Artillery)
ROTC Rifle Team Medals—	
<i>High Aggregate Award</i> .....	Cadet Private Edward T. Hausafus, Jr.
<i>High Standing Award</i> .....	Cadet Private Allen D. Bates
<i>Team Member Award</i> .....	Cadet Private Allen D. Bates Cadet Private Edward T. Hausafus, Jr. Cadet Private Norman S. Kumura Cadet Private Neil R. Koozer Cadet Private Fred A. Kowolowski
The Roy C. Williams Trophy.....	Cadet Private Norman S. Kumura
Armed Forces Communications and Electronics Association Medal	Cadet Captain Steven T. Schenk (Signal Corps)
Department of Oregon, Reserve Officers Association Medal	Cadet Master Sergeant Joseph W. Maylie (Signal Corps)
Department of Oregon, Reserve Officers Association Award—	
	Cadet Captain Elvis G. Barker (Signal Corps) Cadet Lt. Col. Samuel W. Lee (Artillery) Cadet Captain John W. Zalaha (Artillery) Cadet Lt. Col. John A. Benvenuto (Infantry) Cadet Captain Gary W. Butler (Infantry) Cadet Captain Douglas J. Hirte (Engineers) Cadet Captain Duane C. Martin (Engineers)



Sons of the American Revolution Medal.....	Cadet Lt. Col. Darvel C. Stutz (Signal Corps) Cadet Lt. Col. William R. Myers (Infantry) Cadet Lt. Col. Kenneth F. Weleber (Engineers) Cadet Colonel Jim B. Wallace (Artillery)
Superior Cadet Ribbon Award.....	Cadet Colonel Jim B. Wallace (Artillery) Cadet First Sergeant John H. Wilkinson (Engineers) Cadet Private Dick E. Vosberg (Infantry) Cadet Private Dean D. Pemble (Engineers)
U. S. Armor Association Award.....	Cadet Captain Fred W. Greene (Infantry)

### *Naval Reserve Officers Training Corps*

Phil Small Trophy for Excellence in Drill Team Competition (Army, Navy, Air Force).....	NROTC Drill Team, M. D. Peterson, Commander
Certificate for Squad Excellence.....	W. R. McCarthy
Certificate for Platoon Excellence.....	M. H. Nordquist
Certificate for Company Excellence.....	First Company, Lynn H. Curtis, Commander
Naval ROTC Unit Award.....	L. E. Austin, Jr.
Professor of Naval Science Award.....	H. R. Sager
United States Naval Institute Award.....	W. E. Warren, Jr., J. E. Rich
Marine Corps Gazette Award.....	L. E. Austin, Jr.
Department of Oregon Reserve Officers Association Awards.....	L. E. Austin, Jr., F. J. Yraguen, S. E. Hoag, S. H. McKean, J. S. Mendicino
Veterans of Foreign Wars Citizenship Medal.....	N. E. Parkhurst
Portland Council Navy League of the United States Award.....	M. H. Malmros
Convair Award of Merit.....	R. C. Tipper
Winema Chapter Daughters of the American Revolution Award.....	D. B. Fryrear
Diamond Shop Award.....	D. B. Fryrear
Naval ROTC Staff Award.....	R. F. Smith
Department of Oregon Reserve Officers Association Award.....	M. B. Peterson
American Legion Achievement Medal.....	S. E. Hoag
Oregon Society Sons of the American Revolution Award.....	F. J. Yraguen
Benjamin H. Nichols Memorial Award.....	M. H. Malmros, M. O. Boss
Scabbard and Blade Silver Medal.....	E. R. Lasater
Scabbard and Blade Bronze Medal.....	D. B. Fryrear
Dick Linden Rifle Trophy.....	J. K. Hanlein
Northwest NROTC Drill Competition.....	M. B. Peterson
Red Cross Blood Donor Trophy.....	NROTC Unit, L. E. Austin, Jr., Commander
William Randolph Hearst Naval ROTC Rifle Championship Trophy National NROTC Rifle Competition.....	J. K. Hanlein, K. M. Roberts J. A. House II, P. D. Kaufmann, J. E. Furrow
H. D. Powell Rifle Trophy Match, Northwest NROTC Rifle Competition J. K. Hanlein, J. A. House II, K. R. Dunn, K. M. Roberts, P. D. Kaufmann	
Benton County Sheriff's Posse Rifle Team Award— <i>High Aggregate</i> .....	J. K. Hanlein
<i>High Standing</i> .....	J. A. House II
<i>Membership</i> .....	K. R. Dunn, J. E. Furrow, P. D. Kaufmann, K. M. Roberts, D. E. Weisgerber
Annual Pacific Coast ROTC Rifle Match Award.....	J. K. Hanlein, G. C. Erb, K. R. Dunn, J. E. Furrow, K. M. Roberts

### *National, Regional, and State Forensic Honors*

Pacific Forensic League Oratorical Contest, University of Nevada April 2, 1962.....	First place: Diehl Ingersoll Pyfer
Pacific Forensic League After-Dinner Speaking Contest, University of Nevada April 4, 1962.....	First place: Herschel Lewis Mack
Men's State Extempore Speaking Contest, University of Oregon December 5, 1961.....	First place: Herschel Lewis Mack
Men's State Experimental Speaking Contest, University of Portland February 12, 1962.....	First place: Diehl Ingersoll Pyfer
Oratorical Contest of Nevada Great Western Tournament, University of Nevada April 7, 1962.....	First place: Jan Marie Marquiss
Senior Men's Oratorical Contest of the Invitational Tournament, University of Puget Sound February 3, 1962.....	First place: Wallace Duane Cegavske
Women's Oratorical Contest of the Invitational Tournament, University of Oregon October 28, 1961.....	First place: Lora Louise Bennion
Oregon State Peace Oratorical Contest, Oregon State University May 15, 1962.....	Second place: Diehl Ingersoll Pyfer
Men's State Old Line Oratorical Contest, Portland State College April 12, 1962.....	Second place: Herschel Lewis Mack

- Women's State Experimental Speaking Contest, University of Portland  
February 12, 1962.....*Second place:* Alice Arliene Thompson
- Senior Men's Oratorical Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Second place:* Steve Aloysious Hutchinson
- Junior Men's Extempore Speaking Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Second place:* John William Moore
- Senior Men's After-Dinner Speaking Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Second place:* Herschel Lewis Mack
- Junior Women's Public Address Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Second place:* Alice Arliene Thompson
- Men's Oratorical Contest of the Tau Kappa Alpha Invitational Tournament,  
Montana State University  
April 28, 1962.....*Second place:* Diehl Ingersoll Pyfer
- Women's Oratorical Contest of the Tau Kappa Alpha Invitational Tournament,  
Montana State University  
April 28, 1962.....*Second place:* Jan Marie Marquiss
- Senior Women's Oratorical Contest of the Invitational Tournament,  
University of Puget Sound  
February 3, 1962.....*Second place:* Jan Marie Marquiss
- Senior Impromptu Speaking Contest of the Invitational Tournament,  
University of Puget Sound  
February 3, 1962.....*Second place:* Herschel Lewis Mack
- Men's Debate Contest of the Invitational Tournament, Centralia College  
October 21, 1961.....*Second place:* Barbara Ann Bennett, John William Moore
- Women's Impromptu Speaking Contest of the Invitational Tournament,  
Centralia College  
October 21, 1961.....*Second place:* Janan Mary Hayes
- Men's Oratorical Contest of the Invitational Tournament, University of Oregon  
October 28, 1961.....*Second place:* Wallace Duane Cegavske
- Women's Impromptu Speaking Contest of the Invitational Tournament,  
University of Oregon  
October 28, 1961.....*Second place:* Janan Mary Hayes
- Pacific Forensic League Debate Contest, University of Nevada  
April 3, 1962.....*Third place:* Jerome George Justice,  
Herschel Lewis Mack
- Women's State Old Line Oratorical Contest, Portland State College  
April 12, 1962.....*Third place:* Beverly Jean Bower
- Senior Women's Oratorical Contest of the Western Speech Association,  
Fresno State College  
November 22, 1961.....*Third place:* Jan Marie Marquiss
- Junior Men's Oratorical Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Third place:* Arnold Stewart Holmes
- Senior Women's Extempore Speaking Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Third place:* Janan Mary Hayes
- Junior Women's After-Dinner Speaking Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Third place:* Lora Louise Bennion
- Junior Men's Public Address Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Third place:* Thomas Lynn Gallagher
- Senior Men's Impromptu Speaking Contest of the Northwest Invitational Tournament,  
Linfield College  
March 3, 1962.....*Third place:* Herschel Lewis Mack
- Parliamentary Procedure Contest of the Tau Kappa Alpha Invitational Tournament,  
Montana State University  
April 28, 1962.....*Third place:* Arnold Stewart Holmes
- Women's Extempore Speaking Contest of the Invitational Tournament,  
University of Oregon  
October 28, 1961.....*Third place:* Janan Mary Hayes
- Men's Interpretation Contest of the Invitational Tournament, University of Oregon  
October 28, 1961.....*Third place:* Thomas Lynn Gallagher
- National Peace Oratorical Contest (Judged on tape and manuscript),  
1960-61.....*Fifth place:* Beverly Jean Bower



# Scholarships and Fellowships

## GRADUATE FELLOWSHIPS

American Chemical Society Fellowship.....	Charles F. Rowell
American Foundation for Pharmaceutical Education Fellowship.....	Charles R. Harrison
Campbell Soup Fellowship.....	David L. Crawford
Collins Radio Fellowship.....	Gerald D. Ewing
Dow Chemical Company Fellowship.....	James R. Wely
DuPont Postgraduate Teaching Fellowship.....	Herbert D. Warren
Electro-Scientific Industries Research Fellowship.....	Kenneth J. Sternes
Electrochemical Society, Inc. Fellowship.....	Michael J. Schaeer
Evans Products Corporation Fellowship.....	Lawrence O. McMinimy
Foundation for American Resource Management Fellowship.....	Edwin W. Pierson
General Foods Home Economics Fellowship.....	Elveda Smith
Hyslop Agricultural Research Fellowship.....	John C. Radcliffe
Mary J. L. McDonald Forestry Fellowships.....	Gene A. Fagerness, Charles K. Huszar, Kenneth W. Krueger, Lawrence C. Merriam, Samuel V. Stewart, Theodore R. Yocum
Shell Oil Company Fellowship.....	James H. VanSant, Jr.
South Santiam Educational and Research Project Forestry Fellowships.....	Robert P. Schultz, Robert F. Strand
Standard Oil Company of California Fellowship.....	Charles O. Morris
Stauffer Fellowship.....	John D. Hansen
Texaco Fellowship.....	Victor E. Hauser
United States Plywood Corporation Fellowship.....	Ivan Orosz
Weyerhaeuser Forest Management Fellowships.....	Gerald W. Alcock, Emmett F. Thompson
Weyerhaeuser Fellowship in Science.....	L. Douglas Brannock

## UNDERGRADUATE SCHOLARSHIPS

American Marietta Customers Scholarships.....	Lester A. Humphrey, Kenneth L. Webber
Associated Women Students Scholarship.....	Karel M. Sinclair
Mary I. Bash Scholarship.....	Sandra K. Piper
<b>Campbell Soup Scholarships—</b>	
Richard Astro	David J. Pierson
Karen J. Gettmann	Sylvia L. Postl
Carol LaKamp	Myrna J. Rantala
Dean L. McCarger	Jean M. Saubert
James T. McGill	Chapman A. Stranahan
Carol A. Wavra	Margaret A. Westfall
Wanda K. Winder	Linda A. Wright
Roy I. Yamamoto	
Century Club Scholarship.....	James D. Wagner
James Harrison Collins Scholarships.....	Steven T. Bateman, Beverly A. Jolma, Edward D. Kucera, Jr., Stanley J. Souvenir
Corvallis Rotary Club Scholarship.....	David M. McGee
<b>Bernard Daly Educational Fund Scholarships—</b>	
Kerry L. Adams	Daniel B. Dunham
Melvin R. Adams	Edward W. Ivey
Margery F. Blair	Terry F. Kimsey
Bruce D. Charles	George L. Manning
Michael D. Counts	Paul W. McCormick
Merilee J. Pike	Mary Lee Scoville
Edward N. Sipp	Carole B. Tainter
Judith Ann Wrolstad	
Delta Delta Delta Scholarships.....	Helen L. Murray, Jean L. Penrose
Douglas County Home Extension Scholarship.....	Nancy E. Grass
Holmes Scholarship.....	Robert F. Kuest, Jack L. Winchester
Interhall Scholarship.....	Mary L. Wilson
Leonora H. Kerr—Folk Club Scholarship.....	Donna L. Kienle
Mortar Board Scholarships.....	Donna J. Drinkard, Janet L. Jones
Oregon State College Foundation Scholarships.....	Stephen D. Lambert, Sheila M. Miles, David C. Oehling, Robert C. Semon, Jeffrey R. Woodside
<b>Oregon State Dads Club Scholarships—</b>	
Janet E. Allison	Teruo Fujinaga
Burton G. Bennett	David L. Harrington
Bruce W. Dransfeldt	James G. Kincaid
Janet E. Fisher	Donald C. Lewellen
Patricia J. O'Leary	Susanne M. Sasaki
Nadine L. Secret	Ronald M. Tolls
<b>Oregon State Dads Club Grants—</b>	
George T. Abed	Stuart A. Couper
Judith D. Beckman	Paul G. Ingram
James A. Caldwell	Larry L. Ismert
William H. Clarke	Sandra L. Kahler
Joseph W. Maylie	Richard D. Strachan
William G. Young	

**Oregon State Mothers Club Scholarships—**

Judith A. Adair	Johnny D. Greene	Lawrence P. Swanson
Rodney A. Badger	Phillip M. Gregg	Maxine L. Thorpe
Donna L. Baker	George F. Hamlin	Michael J. Wells
Ilene M. Button	Richard L. Harpe	Lois C. Williams
David L. Bystrom	John T. Headlee	Bonnie L. Woolley
Edward F. Corwin	Connie L. Paulsen	Benjamin A. Zamora
Darlene M. Damman	Cynthia A. Shultz	Floyd O. Zufeldt
Fritz Fivian	John A. Skirvin	

**Oregon State University Educational Foundation, Inc. Scholarships.....**David J. Pierson,  
Leroy C. Rittenbach

**Paper Industry Management Association Scholarship.....**Darald W. Callahan

**South Santiam Educational and Research Project Foundation  
Scholarships.....**Sandra L. Gustine, David L. Larkin, James L. McElroy,  
Bernard A. Newcomb, Wayne V. Roberts

**State Scholarships—awarded by the State Scholarship Commission—**

Robert A. Aaserude	Phillip E. Crawford	Judith E. Harle
James C. Adamek	Harold C. Creech	Daniel H. Harris
Alexander M. Adams	Richard M. Crone	Steven T. Hashimoto
Philip D. Adolf	Charley A. Culver	Richard G. Hay
Darlene A. Aho	Ronald W. Dahlseid	Shirley K. Heater
Oran L. Albertson	Craig E. Davies	Gloria M. Heath
Robert J. Albright	Don P. Davis	Michael G. Heath
Evonne V. Allen	Frank G. Davis	Constance C. Hemminger
Susan J. Allen	Sharon N. Davis	Stephen M. Henning
Keith R. Alrick	Richard A. Day	Darle M. Hoagland
Sharon M. Anderson	Arthur F. Deardorff	Sharon A. Hobson
Wayne H. Andreen	Peter M. deLaubenfels	Barbara J. Hoffman
Judith D. Atwood	Richard A. Demers	Arnold S. Holmes
Ina M. Aufdermauer	Wilberta G. Dershon	Roger E. Holtz
Nancy L. Austin	Jonathan P. Dey	Connie A. Howard
Charlotte V. Barnes	Terry J. Dick	William H. Hubbard
Marcia J. Barnhardt	Mary A. Dickerson	Dorothy J. Hudlow
Richard A. Bartsch	Joan M. Dolby	Lester A. Humphrey
Steven T. Bateman	Charlotte Donaldson	Carol L. Hundley
Kathie L. Bauserman	Mary M. Donnelly	Gary L. Hundley
John D. Beard	Laudie J. Doubrava	Glyndon R. Hunter
Michael D. Beebe	James E. Douglas	Carolyn J. Hyke
Elaine Beiswenger	Donna J. Drinkard	Clifford Imel
David B. Bell	Karl A. Drlica	Peggy A. Imig
Beatrice I. Belt	Mary A. Dunn	Betty M. Ingram
Mary E. Belt	Gareth A. Eberle	Nanette K. Isted
Laura L. Bender	Elizabeth L. Ebert	Joel L. Ivey
Robert K. Bennett	Leslie J. Ellis	Merle L. Jager
Grace A. Berger	Elizabeth L. Elmstrom	Rosemary J. Javrin
Phillip J. Bernhard, Jr.	Robert K. Emrich	Paul E. Jarvis
Ann M. Bigelow	Deanna D. Epps	Robert S. Jenkins
Donna E. Biggs	Botond G. Eross	Marilyn D. Jensen
Karmen L. Bingham	Judith C. Esgate	Bruce R. Johnson
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Oregon State University makes grateful acknowledgment of many evidences of good will toward the institution and examples of constructive support of its educational program by individual citizens and by both private and public organizations. Such evidences often denote intangible benefits that are of deep significance, but are not readily reducible to concrete terms.

Grateful acknowledgment is made of receipts from endowment funds and cash gifts supporting scholarships, prizes, and awards maintained for the recognition and encouragement of student achievement. The various awards are described in the Catalog and recorded elsewhere in this Commencement booklet.

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## OREGON STATE UNIVERSITY LIBRARY

### *Memorial Gifts*

Each year, under a plan promoted by "Friends of the Library of Oregon State University," books are added to the Library as gifts of individuals and groups, in memory of deceased friends and relatives, and particularly in memory of persons who have been closely associated with Oregon State University. Each of the books is appropriately marked with a special memorial bookplate recording the name of the person memorialized and the donor. For the present year, \$1,160 has been given the Library for memorial books. Of this amount \$378 was a gift of Major and Mrs. Ed Allworth in memory of their son Kent. During the year, 281 volumes memorializing 38 persons have been added to the Library. Since 1943 when the Memorial Book Plan began, 2,592 books have been placed in the Library in memory of 386 persons. These books constitute constructive memorials of enduring worth.

### *Other Gifts*

In addition to memorial volumes, the Library has also received book gifts with an estimated value of \$1,337. These have included a portion of the personal professional library of Gladys Miller, an Alumna of the School of Home Economics who is a nationally recognized authority on home furnishings. The Portland Chapter of the American Society of Metals has continued its annual gift of \$100 for the purchase of books to be added to the special collection it has established honoring W. J. Kroll, internationally renowned metallurgist who, until recently, resided in Corvallis. Professor Anaita Jurgenson has continued her annual gifts to the Library with the presentation of a beautifully illustrated volume, "Kaukasische Tappiche." From the estate of the late E. E. Wilson, long time Secretary of the Board of Regents of Oregon Agricultural College, have come his personal papers and records containing many items of historical interest.

Mark Weatherford of Albany, Class of '07, has presented copies of documents pertaining to the Rogue River Indian War as well as a revised edition of his book dealing with this war. A cash gift for the purchase of books has been received from the friends of W. L. Powers, former head of the OSU Department of Soils.

The largest money gift in the history of the Library has been \$5,000 presented anonymously to be used for an art object or other beautification of the new library building. Additional cash gifts for this purpose have come from the Oregon State Foundation and from C. M. Goethe of Sacramento.

Gifts of current periodical subscriptions, continuations, and back files of periodicals, with an estimated value of \$1,861, have been received from publishers, industrial firms, individuals, and faculty members. In addition, many books, periodicals, bulletins, serial publications, reports, reprints, pamphlets, and subscriptions to current trade and technical periodicals numbering thousands of pieces have been received from various individuals and companies. The total estimated value of all gifts to the Library, including memorial books, is approximately \$9,675.

#### HORNER MUSEUM OF THE OREGON COUNTRY

Since its inception the Horner Museum has enjoyed the support of the public it serves. During the past year many individuals have brought specimens, heirlooms, and personal treasures to all departments of the Museum to be enjoyed by the public. These donations vary in scope from individual items to entire collections. The Museum makes grateful acknowledgment of these gifts and loans that have contributed so much to its progress.

#### MEMORIAL UNION

The Memorial Union acknowledges the gracious cooperation and generous support of the many friends who have made its cultural, recreational, and educational programs for the entire campus community possible.



# Academic Dress

The cap and gown and colorful hood so prominent in commencement ceremonies resemble to some extent articles of dress worn by church and university dignitaries in the Middle Ages. The cap and gown indicate that the wearer is a member of a university or college. The hood shows the degree the wearer holds.

The gown for the bachelor's degree has pointed sleeves and is designed to be worn closed. The master's gown has closed sleeves, square at the end, the arms coming through a slit at the elbow; it may be worn open or closed. The doctor's gown has bell-shaped sleeves and may be worn open or closed. Down the front the doctor's gown has a facing of velvet and three bars on each sleeve of the same material. The facing and bars may be either black or the color distinctive of the subject to which the degree pertains. The cap is worn for all degrees; the doctor may wear a golden tassel.

Hoods are normally black with a colorful lining rolled outward. Bachelor's hoods are three feet long, master's three and one-half feet, and doctor's four feet.

For all academic purposes, including trimmings for the doctor's gown, edgings of hoods, and tassels of caps, the colors associated with the different subjects are as follows:

Agriculture .....	Maize	Library Science .....	Lemon
Arts, Letters, Humanities .....	White	Music .....	Pink
Business, Commerce .....	Drab	Pharmacy .....	Olive green
Education .....	Light blue	Philosophy .....	Dark blue
Engineering .....	Orange	Physical Education .....	Sage green
Forestry .....	Russet	Science .....	Golden yellow
Home Economics .....	Maroon	Theology .....	Scarlet
Law .....	Purple	Veterinary Science .....	Gray

The silk or satin lining of the hood is the color or colors of the university or college which conferred the degree. Some have a slash or chevron of contrasting color. For example:

<i>University granting degree</i>	<i>Lining</i>	<i>Slash or chevron</i>
University of Wisconsin.....	Bright red.....	.....
University of Minnesota.....	Old gold.....	Maroon
Yale University.....	Blue.....	.....
University of California.....	Gold.....	Yale blue
University of Maryland.....	Black.....	Old gold
University of Illinois.....	Navy blue.....	Two orange
University of Washington.....	Purple above gold.....	.....
University of Oregon.....	Lemon yellow.....	Dark green
New York University.....	Violet.....	.....
Stanford University.....	Cardinal.....	.....
Columbia University.....	Light blue.....	White
University of Michigan.....	Maize.....	Blue
University of Texas.....	White above orange.....	Burnt orange
Duke University.....	Royal blue.....	White
Cornell University.....	Cardinal.....	Two white
Harvard University.....	Crimson.....	.....
Michigan State University.....	Greenish yellow.....	.....
Iowa State University.....	Gold above cardinal.....	.....
State University of Iowa.....	Old gold.....	.....
Oregon State University.....	Burnt orange.....	.....

## ALMA MATER

*W*ITHIN a vale of western mountains,  
There's a college we hold dear.  
Her shady slopes and fountains  
Oft to me appear.  
I love to wander on the pathway  
Down to the Trysting Tree,  
For there again I see in fancy,  
Old friends dear to me.

(Chorus)

Carry me back to OSU,  
Back to her vine-clad halls;  
Thus fondly ever in my mem'ry  
Alma Mater calls.