CALVIN

College

2011 COMMENCEMENT

Saturday May Twenty-one Two O'Clock

NOW THANK WE ALL OUR GOD Martin Rinkart Johann Cruger

Now thank we all our God with heart and hands and voices, who wondrous things has done, in whom his world rejoices; who from our mothers' arms has blessed us on our way with countless gifts of love, and still is ours today.

O may this bounteous God through all our life be near us, with ever joyful hearts and blessed peace to cheer us, to keep us in his grace, and guide us when perplexed, and free us from all ills of this world in the next.

All praise and thanks to God the Father now be given, the Son and Spirit blest, who reign in highest heaven the one eternal God, whom heaven and earth adore; for thus it was, is now, and shall be evermore.

THE CALVIN ALMA MATER Dale Grotenhuis Celia Bruinooge

Calvin, Calvin, sing we all to thee; to dear Alma Mater we pledge fidelity. Forever faithful to maroon and gold, thy name and honor we ever shall uphold. Calvin, Calvin, God has been thy guide; dear Alma Mater, thy strength He shall provide. Be loyal ever to the faith of old. God's name and honor we ever shall uphold.

ORDER OF COMMENCEMENT

Prelude	Brighton Beach	William P. Latham
Processional	Pomp and Circumstance, March No. 1Edward Elgar, arr. by Clare GrundmanCalvin College Wind Ensemble, Tiffany Engle, DMA, conductor	
*Opening Hymn *Invocation	Now Thank We All Our God Scott A. Spoelhof, MBA, Chair, Calvin College Board of Trustees	
Introduction of Commencement Speaker	Gaylen J. Byker, PhD, President	
Commencement Address	"One Thing Needful" Jennifer L. Holberg, PhD, Professor, English	
Presentation of Awards	Ross A. Weener, BA, President, Calvin Alumni Association, to Mary A. Andringa, BA, Class of 1972 and to Robert E. Rooy, MFA, Class of 1970	
Remarks on Behalf of the Senior Class	Abigail L. Belford, Student Body President	
*Litany for Commencement		
*Hymn of Dedication	Our Hands and Hearts We Offer	
Conferring of Degrees	Claudia DeVries Beversluis, PhD, Provost, and Gaylen J. Byker, PhD, President	
Presentation of Diplomas		
*The Calvin Alma Mater		
Closing Remarks		
†Recessional	Sine Nomine	Ralph Vaughan Williams, arr. by Alfred Reed
*Audience Standing		

*Audience Standing

[†] The audience is requested to be seated until the faculty and graduates have exited.

LITANY FOR COMMENCEMENT

Liturgist:

We praise and thank you, Heavenly Father, for lavishing your glorious riches on Calvin College and on this graduating class. We thank you for years of increase, for decades of development and maturing. We thank you for students, who hunger for the knowledge of your will and purposes.

People:

For professors and administrators who nurture and lead,

Liturgist:

For supporters and constituents who have caught the vision of your glorious kingdom, and of the tasks we can do for the King.

For prophetic voices to warn, chasten, and correct when we lose our way. For graduates whose lives of joyful service and liberating obedience bring the kingdom in, in times and ways and places far beyond our best planning and our boldest hopes.

People:

We thank you, Lord for your great faithfulness, and we praise you for the lives of the distinguished alumni we honor today.

Liturgist:

We thank you today for the strength you give us through the Spirit, for the gift of Christ dwelling in our hearts and lives and programs, and for the communion of all the saints, in whom we catch a glimpse of how wide and long and high and deep is the love of Christ.

We thank you for the opportunities to ask more boldly and to imagine more confidently as we move into the future, a future in which your full glory will be on blazing display to all peoples and to all generations.

People:

On this glad day, we praise your name, O Lord.

To the God who has already graced our lives with vision, sacrifice, and learning, we come with this bold plea: Grant unto us the joy of your salvation. Amen.

OUR HANDS AND HEARTS WE OFFER



Text: David Fuentes, Lee Hardy, and Bert Polman, ©2009 Tune: David Fuentes, ©2008

COMMENCEMENT SPEAKER

Jennifer Holberg, PhD, Professor, English

Jennifer L. Holberg grew up as an "Army brat," moving nine times before graduating from high school. Her childhood homes ranged from places abroad like Korea and Japan to stateside assignments such as Oklahoma, Kansas, and New Mexico. Her parents, Lt. Colonel Benjamin and the late Sally Holberg, consistently modeled Christian love and commitment in their daily lives and, as such, set a standard of joyful service that she and her two siblings, John Holberg (a librarian at Covenant College in Lookout Mountain, GA) and Jane Wierenga (a former schoolteacher, now homemaker, in Seattle) have striven to emulate.

Holberg joined the English department at Calvin in 1998. She received her Bachelor of Arts in English and history in 1990 from New Mexico State University, where she received the Class of 1919 award for the graduate with the highest overall academic average. She also was awarded the NMSU Alumni Association Outstanding College of Arts and Sciences Senior, the Emerson Outstanding Undergraduate Writing Award, and the Simon F. Kropp Outstanding Senior in History. She then attended the University of Washington, where she received her MA in English in 1991 and her PhD in English in 1997. While at Washington, Holberg developed and taught fifteen different courses, served as assistant director of the Expository Writing Program, and worked as an editorial assistant for a scholarly journal. In support of her dissertation, she received the Robert R. and Mary Robert Waltz Dissertation fellowship; for her teaching, she was nominated four times for

the Joan Webber Outstanding Teaching Assistant Award and was a finalist twice. In 1997-1998, she was granted a post-doctoral position.

Holberg's academic interests include British literature, particularly the 19th and 20th centuries; women's writing; the intersection of faith and literature; and the scholarship of teaching and learning. Since coming to Calvin, Holberg has taught an impressive range of courses, from first-year composition to the senior-level capstone, Senior Seminar. She enjoys teaching core students as much as majors and frequently teaches survey courses including Understanding Literature, World Literature I, British Literature II, and Women and Literature. Her upper-division courses focus on the British novel, the 18th century, and the Victorian period. She also spent a year piloting a class for students living on the honors floor of Van Reken Hall, entitled "Great Idea, Great Text." Her interim classes have featured topics as various as the Army and the American West, Jane Austen and Virginia Woolf, the contemporary American theatre and the family, "twice-told tales," and the connection between fiction and faith. She has twice taken students abroad: once for a London theatre interim and once for a trip to London and Paris, entitled "The Tale of Two Cities." Teaching is, indeed, her first love. One of her proudest moments remains being the first woman at Calvin to be selected by the senior class as Professor of the Year (2002).

Her work has appeared in a variety of publications, including *College Composition and Communication*, WPA: Writing Program Administration, the

Encyclopedia of British Women's Writing, Christianity and Literature, Books and Culture, The Banner, and Perspectives: Journal of Reformed Thought. Her essay, "SWF Seeking King," was featured in Best Christian Writing 2004. Holberg is the founding co-editor of the scholarly journal Pedagogy: Critical Approaches to Teaching Literature, Language, Composition and Culture, published by Duke University Press. Pedagogy was named "Best New Journal" by the Council of Editors of Learned Journals in 2001, its first year of publication. Along with Ken Bratt, Holberg edited a special issue of Journal of Education and Christian Belief (2010), entitled Christian Higher Education for the "Best and Brightest." She also edited a collection of twenty-two speeches and interviews from Calvin's Festival of Faith and Writing, Shouts and Whispers, published by Wm. B. Eerdmans in 2006.

Holberg is active as well in serving the college and the community. For the past four years, she has been a member of the Modern Language Association's Executive Committee for the Division on the Teaching of Literature, this year as president. She is currently National Chair of the Advisory Board for the Buechner Institute at King College, and a board member for Oxford Scholars Semester. Previously, she was on the editorial board for Perspectives (now a contributing editor) and for Minds in the Making, a Calvin e-journal. In the English department, she has served on a variety of committees; most recently, she oversaw the massive curriculum revision that the department undertook. At the college level, Holberg was Head Teaching Fellow, assisting new and

continuing faculty with professional development. Since 2006, she has been Associate Director of the Honors program, this past semester as Acting Director. A two-term faculty senator, Holberg was recently elected to serve as vice-chair of Faculty Senate (the ranking faculty member) next year. Her committee assignments have included Faculty Development, Gender Studies minor, Strategic Planning, Calvin Center for Christian Scholarship board, Kuyers Institute board, and Planning and Priorities.

She greatly enjoys working with students and makes frequent appearances at dorm events and other student activities. She has served as mentor for activities as diverse as the McGregor Sophomore Scholars program and Women's Field Hockey Club. This year, she acted as the advisor for Chimes, Calvin's student newspaper.

Holberg is committed to "public teaching" and is frequently a teacher for CALL (Calvin Academy of Lifelong Learning) as well as a guest speaker for various adult education programs at area churches. She believes strongly that taking knowledge into the wider community is not only a professional responsibility, but vital to cultivating an appreciation for the liberal arts with the constituencies we serve. As such, she was president of the Grand Rapids Humanities Council from 2009-2011. She has long volunteered at church and works each month at Addie's Pantry, a downtown food pantry.

She wishes joy and blessing to the Class of 2011. Go in peace to love and serve the Lord!

MESSAGE FROM THE FIFTY-YEAR REUNION CLASS

Dear Calvin College Class of 2011:

The Class of 1961 extends its congratulations and best wishes.

Our class reunion has brought back memories of our time at Calvin and our own graduation. Although much has changed in 50 years, graduation remains one of life's major milestones. We take pride in your accomplishments and share your excitement for the future. Those of us able to attend our class reunion are honored to be with you on this day.

The congratulations offered to graduates are often accompanied by advice. After all, graduation is the last time a class assembles. A captive young audience is an irresistible target for elders with wisdom to share. What have 50 years taught us that might be useful to you?

You undoubtedly have goals for your life and have made plans for achieving those goals. Thinking ahead is always a good idea. We wish to tell you that despite your plans, life will be filled with surprise. That has been our experience. The only certain thing about the future is its uncertainty. God's will is that we live as faithful disciples, but we are given no schedule of times, places, and tasks.

The world of the future, your world, will be as different from the world of today as today's world is different from the world we inherited from our parents. You may be tired of hearing tales of round TV screens, slide rules, and 30-cents-a-gallon gasoline. But the world has,

indeed, changed, and changed profoundly, over the last 50 years. Some change is for the better and some is for the worse. We have measured the scope, shape, and history of the universe, but we are beset by poverty, hunger, and war as much as ever. We have discovered thousands of stars with planets. Some appear to be earth-like raising the probability of other civilizations in our galaxy, but we have yet to discover how to conduct civilized political discourse among ourselves. We have decoded the recipe for replicating many life forms, but the health of most of our fellow world citizens remains desperately tenuous. Sadly, many of your challenges are remarkably similar to those we faced. We hope you are more successful in your efforts to foster a just society.

We urge you to live with confidence. An uncertain future and a world of seemingly unending trouble represent opportunity for those called to establish heaven on earth. Your faith can be more than an anchor of stability in your life; the perspective it provides can guide you in making life's choices. You may not know the future, but you do have the sure knowledge that no matter where, when, and how you are called to serve, there will be grace sufficient to the task. This one truth may turn out to be the most important of all the things you learned at Calvin.

Sincerely,

Paul Vanden Bout for the Class of 1961

DISTINGUISHED ALUMNI

The Calvin Alumni Association is proud to present three alumni with the Distinguished Alumni Award. Persons honored in such a way have been chosen by an independent selection committee comprised of alumni, faculty, and staff and are endorsed by the Calvin Alumni Association Board.

Recipients of the Distinguished Alumni Award have made significant contributions to their fields of endeavor, are recognized by their associates for outstanding achievements, and manifest a Christian commitment that reflects honor upon Calvin College.

Mary A. Andringa, B.A., Class of 1972

She was steeped in Reformed teaching from an early age, lived in the Dutch town of Pella, Iowa, and faced a college choice that was either Calvin or Dordt College. Yet Mary Andringa credits her worldview—a perspective that has guided her life and work to this day—to a Calvin Religion 101 class with the late professor Gordon Spykman.

"The idea that the whole world belongs to God, He is sovereign over all and calls us to serve Him whatever and wherever the gifts He has given us take us—it is a bedrock conviction that serves as a constant guide," she said.

Andringa's original intent was to study nursing at Calvin, but she soon changed to elementary education with a music emphasis.

She remembers the excellent professors at Calvin, names such as Stanley Wiersma and Howard Slenk coming quickly to mind. "Calvin has outstanding scholars who really want to teach undergrads," she said.

Andringa met her future husband, Dale, in Radio Choir, and they've been married for 40 years now. She followed Dale to medical school at the University of Iowa and landed a position teaching music and then kindergarten in the public school system of Iowa City. Son Jason was born there.

Moving to Omaha, Neb. for Dale's residency, she directed a church preschool program part-time as daughter Mindi joined the family.

At this time, Andringa was asked if she had an interest in joining the family business, then known as Vermeer Manufacturing, in her hometown of Pella.

The company was founded in 1948 by Andringa's father, Gary Vermeer, an entrepreneur and inventor who began Vermeer as a one-person endeavor. Vermeer Corp. is now an international company that manufactures agricultural, construction, environmental and industrial equipment and employs more than 2,000 people and generates over \$500 million in business each year.

Andringa started with the company in 1982 as a market researcher and became more and more involved. She was named chief operating officer at Vermeer in 1989 and later co-CEO with her brother, Robert Vermeer, in 2003. Six years later, that title was changed once more, to president and chief executive officer.

"One has to be intentional about working in a family business," said Andringa. "Family businesses have their own brand of opportunity and stress. We work through the tough issues and we have trusted outside-the-family advisers. There is a strategy and structure for family members entering the company and for transitions."

It turns out the former elementary music teacher has a gift for business and executive leadership. She is the first woman to be elected as chair of the board for the National Association of Manufacturers, the nation's largest industrial trade association. In 2010, President Obama named Andringa to a White House export advisory council, one of only 18 business executives across the nation so appointed.

"I am a strong believer in manufacturing in our country," said Andringa. "Our national association advises on policy and can be influencers for future jobs in manufacturing."

Of the Washington appointment, she said, "About 30 percent of our business is in exports. We'd sure like to see government policies that go in the right direction."

Her visits to the nation's capital have been rewarding and frustrating. She has been able to meet and network with other national business executives, members of Congress and White House administrators.

"I appreciate the challenging task of national politics much more than before. There are a lot of dedicated people in Washington, but it also seems easy to get caught up in the bureaucracy," she said.

"We do have a form of government in this country that can work; there are checks and balances," she noted. "It is our responsibility as citizens to contribute and make our voices heard. Free trade agreements, for example, are important for exporting. It has made a difference that people are speaking up."

Andringa has been asked numerous times in the last few years to run for public office, but she politely and consistently declines. She sees her primary task as a business owner to help provide a positive platform of transition to the next generation.

She sees many intersections between faith and business, and she credits her family's unswerving

adherence to biblically based values as a primary reason Vermeer Corp. draws business partners.

"Clients come to us because they see us as a company of integrity," she said. "We want to be known that way and we try to interact with everyone that way."

"I've observed particularly how Mary integrates her Christian faith with her values in life as CEO of a family owned company," wrote her pastor, Tony Vis, of Meredith Drive Reformed Church in Des Moines. "Mary would want it clear that the placement of Christian values in the Vermeer business is a family decision, a tradition handed down from her parents and fully embraced by her and her siblings. She leads a company that cares for its people, those it serves and those who serve it, as much as it values profit."

Andringa mentions the Vermeer "Four Ps," the core values of the company: principles, people, products and profit. Each value is described with words such as stewardship, uniquely gifted, honesty, integrity, sustainable, quality and reinvestment.

"We stand behind our values," she said. "We're not perfect, but we are dependable and stand by our word. Other business partners tell us we're unique. Even internationally, with different religions and customs, our straightforward, valuesoriented approach resonates."

Running a business these days is no small matter. Challenges abound. But Andringa describes herself as a "glass half-full person," optimistic that the problems of the day, the year and the future can be overcome.

"My dad used to approach difficulties by saying, 'That's not really a problem; we'll get that worked out,'" she said. "That's become my view for whatever comes up in business, or at church or school. That's not to minimize the challenge, but only to say, 'We have a lot of resourceful people here. There's work to do, but we can rally the troops and get it accomplished.'"

Mary and Dale Andringa's son, Jason, is a 1999 Calvin graduate, with an aeronautics degree from MIT and an MBA degree from the University of Southern California. He is Vermeer's vice president of global distribution and global accounts. Daughter Mindi graduated from Calvin in 2000, received her MBA at Davenport University and serves as Vermeer's marketing fleet manager. The Andringas have four grandchildren.

Robert E. Rooy, M.F.A., Class of 1970

When in the late 1960s Robert Rooy '70 first told his Iowa farm parents he was strongly considering a career in theater, his parents contacted then-Calvin chaplain Bernard Pekelder and asked him if this was something a young, Christian man could successfully pursue. "I think he said something like, 'Yes, there is nothing in our tradition that this would go against; it all depends on the individual,'" Rooy said.

During his ensuing 40-year career, Rooy has flourished in a field where the perception is that it is difficult to have a Christian influence: filmmaking.

Upon graduating from Calvin with degrees in English and speech and an emphasis in theater, Rooy went on to Yale University School of Drama, where he earned an MFA in theater and was first introduced to the film industry.

He followed a career path to Los Angeles, where he was accepted into the Directors Guild of America Training Program, and eventually into work as a first assistant director in movies and television. Over the years, he worked on more than 40 Hollywood productions, including *Gods and Generals*, *Minority Report*, *The West Wing*, *The Fugitive* and *Lonesome Dove*.

But it was his work in between each large production that most inspired him. "When I was in my 20s, I did a travel series in some of the most beautiful places in South America," he said. "But it was also the most shocking juxtaposition of poverty and wealth I had ever experienced. There's nothing like shooting on a beautiful beach in Rio de Janeiro with the slums only a few blocks away. You can see them, hear them, smell them. That had a big effect on me. I felt that in one way or another I had to address the inequity that I saw.

"At that time I had the naïve notion that I could build these types of issues into feature film scripts," he said. "Once in Hollywood, I became less and less confident that this would work out."

So, in the intervals between jobs, Rooy began volunteering his services to nonprofit organizations, making short films advocating for social justice in various areas.

In 1991, Rooy was introduced to Muhammad Yunus, Nobel Peace Prize Laureate, and his organization Grameen Bank, which works to reduce poverty in Bangladesh through microfinance. Since then, he has worked in more than 20 countries, creating dozens of broadcast and DVD programs profiling this promising strategy.

Of this work he said, "Service toward others is very strong in our family. But I confess that I also do what I do for selfish reasons—because it feels good. And I've connected with so many remarkable people whom I would never have met in any other way." It is this recognition that drew Rooy to his current project, one that he has been working on for four years.

"I'm telling the story of an uncommon teenager who has all of the challenges of a regular teenager exponentially multiplied; it's a profile of coming of age in a pressure cooker," said Rooy.

Rooy first heard about D.J. Savarese, a young man with autism, on a National Public Radio show. "It really intrigued me," said Rooy. "On an impulse I got in touch with his dad; his story won my heart."

Savarese is an intelligent, gifted person who demonstrates some typical symptoms of autism, including extreme anxiety, an inability to speak and difficulties in social interaction. He types with one finger to communicate.

"I thought autism meant a person had no wish to socially interact," said Rooy. "That's one of the myths that has been perpetuated in the past. I've learned through D.J. that he cares tremendously about other people; he's more passionate than many neurotypical people. It's the traffic controller in his brain that doesn't work properly."

Rooy has learned much more through Savarese and hopes to help dispel some myths in his film, but emphasized that it is not, per se, an educational film about autism. "More than anything, I just want to tell an intensely personal story that audiences will connect with. The educational uses will follow."

What makes the film unique is that it is a collaborative effort with Savarese, Rooy said. "This is not just about D.J.; it's being made in partnership with him. I consult with him on editorial decisions, and he has the right to object to anything he feels is not an accurate portrayal of autism," he said. "He really loves and understands me," Savarese confirmed. "Whenever I worry about Rob not coming to film, I just remind myself that he is busy filming hopeful solutions to poverty in the world. I hope to do such meaningful work as Rob when I grow up."

Rooy believes this work is not much different than his former international work. "It's easy to take an egocentric approach toward development work and fail to give a voice to those you're intending to help," he said. "In the same way, there are a lot of well-intentioned people who fail to give autists a voice and simply view autism as a scourge. They have not viewed autists with the full potential that they may have."

Highly supportive of the work is Ralph Savarese, D.J.'s father: "The film is of a piece with Rob's documentary work as a whole," he wrote, "his commitment to a better world. The clips are beautifully made AND they are spiritually and politically instructive: they have a point.

... The world needs more men like Rob Rooy."

Passionate about his work, Rooy credits Calvin for preparing him to be a lifelong learner. "Calvin equips people to be open to the exploration of new possibilities," he said. "At Calvin I had professors who challenged me to always turn the coin over and look at the other side. It was less about arriving at conclusions and more about opening everything up to rigorous personal examination."

When he isn't working on a film shoot, Rooy lives in Frederick, Md., with his wife, Sally. Their daughter, Andrea, is a PhD candidate in political science at the University of Michigan. Their son, Gerrit, is a fifth-grade reading specialist at KIPP Believe College Prep, a charter school in New Orleans.

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Michael M. Byun, BA Music, Religion

Abigail L. Cable, BA Art, K-12 Certification

Megan K. Cain, BA Psychology **Donielle A. Cambronne, BA** Business-Small Business Concentration

Brett T. Campbell, BSW Social Work, French

Paul R. Campbell, BA CAS-Rhetoric

Brett J. Capel, BS Biochemistry

Mindy L. Capisciolto, BA Art

Nicholas J. Capisciolto, BA Business/CAS Group

Chelsea F. Capobianco, BA English

Marian R. Cardwell, BS Biochemistry, French with Honors

Holly A. Carlson, BA Psychology

Kristen A. Casey, BA Art, K-12 Certification

Amy M. Cassis, BA English, Secondary Certification

Jenna M. Cawley, BA Interdisciplinary

Lejla Cesko, BS Biochemistry

Danielle M. Chambery, BA Physical Education

Nicolette A. Chambery, BA Political Science

Ahram Cheon, BA Interdisciplinary

Ji Won Choe, BA Business Andrew E. Choi, BA History Nard Choi, BA English Ying Yan T. Choi, BS Biology

Erin M. Chong, BA Asian Studies

Stephen A. Clark, BFA Art

Amy C. Clousing, BSW Social Work

Alexandra M. Cok, BS Chemistry with Honors, Mathematics

Chelsea M. Cok, BSPA Accountancy

Rhiana C. Cok, BSE Engineering-Civil & Environmental Concentration with Honors

Jennifer A. Colosky, BA Business-Finance Concentration with Honors

Dana W. Corey, BSN Nursing

Alexander R. Cortez, BA Spanish

Bethany M. Cousineau, BSN Nursing

Lindsey M. Crandle, BA Spanish, International Dev Studies

Thomas P. Crane, BS Biology

Sarah R. Cranmer, BSW Social Work

Kristin R. Crawford, BA CAS-Media Production

Rachel M. Croninger, BA Psychology **Amy K. Crouch, BA** Interdisciplinary

Fiona A. Crump, BA International Dev Studies

Kacy L. Cryderman, BSN Nursing

Katie L. Cummings, BA History

Emily C. Daher, BA Political Science, International Dev Studies

Ali N. Dahmer, BA Religion, Greek

Julia H. Daining, BA English

David A. Danks, BS Environmental Science

Nathan A. Danks, BA Physics

Laura A. Datema, BSN Nursing

Emily C. Davis, BSN Nursing

Christina T. Davison, BSOT Occupational Therapy

Grace M. De Boer, BA Sociology

Jennifer A. DeBoer, BA Physical Education

Andrew J. Decker, BA History

Nicole M. DeFillipi, BSN Nursing

Marc J. DeFrell, BSE Engineering-Mechanical Concentration, International Concentration

Zachary J. DeGroot, BA Psychology **Douglas L. De Haan, BA** Special Ed-Cognitive Impairm't, Elementary Certification

Stacey R. De Haan, BS Biochemistry

Emily R. DeHoog, BA Political Science

Elizabeth J. De Jong, BSPA, BA Accountancy, Chinese

Hannah M. De Jong, BA Psychology

Kathryn H. De Jong, BA Business, Economics

Peter A. DeKievit, BS Integrated Science Studies, Secondary Certification

Mark T. Dekker, BSE Engineering-Chemical Concentration

Michelle L. Dekker, BA English

Brian T. DeKock, BSE Engineering-Mechanical Concentration

Bryant M. De Kruyter, BS Biology

Emily K. DeLange, BSN Nursing

Julie K. De Masters, BA Business-Marketing Concentration

Paul E. de Nijs, BA Spanish, Secondary Certification

Sarah J. DeRidder, BA CAS-Theatre

Brian J. Derks, BA Information Systems Aaron J. De Roo, BSPA Accountancy

Alison K. De Rooy, BSR Recreation, Spanish

Andrew R. De Vlieger, BA Business-Human Resources Concentration, Psychology

Amanda J. De Voogd, BSN Nursing

Jenna M. De Voogd, BA Spanish, Elementary Certification

Emily R. DeVries, BSW Social Work

Laurel B. De Vries, BA Classical Languages with Honors, English

Megan A. DeVries, BA Psychology

Michael J. De Vries, BSA Accountancy

Ryan J. DeVries, BA International Relations with Honors, Chinese with Honors

Alyson A. de Walle, BA Psychology with Honors

James C. DeWitt, BA Psychology

Henry R. DeYoung, BS Biology, Biochemistry

Awilda E. Diaz-Gaston, BA Psychology

Jordan R. Dickinson, BA History, Political Science

Brandon M. Dieleman, BA History **Elizabeth A. Diepstra, BA** Education/Three Minors, Elementary Certification

An T. Dinh, BA Speech Pathology & Audiology

Benjamin R. Dixon, BA Religion

Eric J. Doezema, BSPA Accountancy

Meredith R. Donnelly, BFA Art

Brittany A. Draving, BA Interdisciplinary

Chad T. Drenth, BA Education/Three Minors, Elementary Certification

Michael R. Drury, BA Social Studies, History, Secondary Certification

Allie E. Duernberger, BSN Nursing

Derek E. Dufendach, BS Biology

Charlotte S. Du Laney, BS Physics

Benjamin J. Dykema, BSE Engineering-Civil & Environmental Concentration

Stephanie M. Dykert, BA Art History

Amy M. Dykstra, BSN Nursing

James A. Dykstra, BSE Engineering-Civil & Environmental Concentration

Stacey M. Dykstra, BA Physical Education

Justin R. Eames, BA Interdisciplinary Meghan E. Eames, BA Education/Three Minors, Elementary Certification

Michael B. Ebbert, BA Physical Education, K-12 Certification

Matthew R. Eber, BS Biology

Kennith W. Echtinaw, BA Japanese

Alexander S. Edwards, BA Psychology

Nathaniel A. Edwards, BS Biology

Brenton J. Eelkema, BSE Engineering-Electrical & Computer Concentration

Kelsey A. Eichelberg, BA Special Ed-Cognitive Impairm't, Elementary Certification

Aaron D. Eising, BA Greek, Religion with Honors

Caitlin A. Eising, BSN Nursing

Jacob B. Eizenga, BA English with Honors

Trenton M. Elders, BA Interdisciplinary

Roland E. Eldridge, BA Economics, Philosophy

Derek D. Elenbaas, BSPA Accountancy

Jorie L. Ellens, BA Business/CAS Group with Honors

Thomas J. Ellens, BSE Engineering-Mechanical Concentration, US Army ROTC, 2nd Lieutenant Jennifer L. Erickson, BA Spanish, K-12 Certification

Sarah C. Evangelist, BA Spanish, K-12 Certification

Daniel R. Evans, BSE Engineering-Electrical & Computer Concentration

Leah J. Evans, BSA Accountancy with Honors, French

Melanie L. Evans, BA International Dev Studies

Barbara A. Eysenbach, BA Business/CAS Group

Hayley M. Faber, BS Biochemistry

Katherine J. Faber, BS Biology with Honors

Michael J. Faber, BA Integrated Science Studies, Elementary Certification

Courtney E. Fahndrich, BSW Social Work, Spanish

Leondra S. Fair, BA Interdisciplinary

Lou Fan, BA Business-Marketing Concentration

Joel B. Faulkner, BA Philosophy with Honors

Elizabeth B. Feenstra, BS Biochemistry with Honors

Zachary P. Fisk, BA CAS-Media Production

Kristen J. Fletcher, BA History with Honors

Joseph W. Flikweert, BSE Engineering-Mechanical Concentration, International Concentration **Rebecca R. Flim, BA** Physical Education, US Army ROTC, 2nd Lieutenant

Kara J. Folkema, BA Education/Three Minors, Elementary Certification

Sarah E. Fondell, BA Psychology

Matthew G. Fortosis, BA History

Sarah A. Frandsen, BSN Nursing

Audrey M. Freeman, BA Business/CAS Group

Sarah E. Frisch, BA Psychology

Heidi M. Gabrielse, BSN Nursing

Sanna L. Gabrielsson, BA English

Kristin E. Galinski, BSW Social Work

Yakubu N. Gang, BSE Engineering-Mechanical Concentration

Joshua F. Garone, BS Environmental Science

Brandon L. Gasper, BA Speech Pathology & Audiology

Joel R. Geertsma, BA CAS-Media Production

Caroline K. Geist, BSW Social Work

Jonathan R. Gelderloos, BSE Engineering-Electrical & Computer Concentration

Benjamin K. Geldersma, BSN Nursing Jill L. Genzink, BA Psychology Justin L. Genzink, BA

Religion Hannah E. Gerig, BSE

Engineering-Chemical Concentration

Cameron A. Gibbs, BA Philosophy with Honors

Christian A. Gibson, BA Psychology

Nathanael P. Gifford, BSE Engineering-Chemical Concentration, Chemistry

Morgan J. Gilman, BA Education/Three Minors, Elementary Certification

Logan P. Gingerich, BA Sociology

Joseph D. Girolamo, BA Interdisciplinary

Melissa C. Glaser, BA Education/Three Minors, Elementary Certification

Jacob M. Gonzales, BA Psychology

Jenna F. Graham, BSW Social Work

Patricia E. Graham, BSW Social Work

Rachelle E. Grandia, BA Business-Finance Concentration

Elise M. Gray, BA Education/Three Minors, Elementary Certification

Bradley A. Greco, BCS Computer Science

Tyler S. Greenway, BA Psychology with Honors **Evan R. Griffin, BA** Philosophy, Religion

Drew T. Griffioen, BSE Engineering-Mechanical Concentration

Hannah S. Griffioen, BA Latin, Greek

JoAnna C. Groendyk, BSE Engineering-Civil & Environmental Concentration

Erin B. Groenewal, BA CAS-Media Studies

Bradley D. Groenewold, BA Special Ed-Cognitive Impairm't, Elementary Certification

Jeffrey J. Groenewold, BA Business-Operations Concentration

Jenica M. Groot Nibbelink, BA English

Jessica L. Grow, BA Business/CAS Group

Savannah L. Gruesbeck, BA CAS-Rhetoric, Sociology

Deborah L. Haak, BA Psychology

Megan L. Haan, BSN Nursing

Rebecca B. Haferkamp, BS Interdisciplinary

Melissa N. Hakola, BSN Nursing

Carsten R. Hamann, BA Chinese, Philosophy with Honors

Bethany C. Hammer, BSN Nursing Jeremia A. Handoko, BA Art

Hallie C. Harger, BA Art History

Andrew R. Harmon, BS Biochemistry

Chad M. Hart, BSR Recreation

Henry J. Hasson, BA Business-Marketing Concentration

Calvin A. Hau, BA Interdisciplinary

Allison J. Haverkamp, BSR Recreation

Amanda L. Hayes, BSE Engineering-Civil & Environmental Concentration with Honors

James T. Hays, BS Mathematics

Katie L. Hazeu, BA Art, Art History

Michelle E. Hedg-peth, BA Spanish

Bradley J. Heethuis, BA Physical Education

Jonathan B. Hellman, BA Interdisciplinary

Reid H. Helser, BS Biology

Maria L. Hendrikse, BSN Nursing

Jess J. Hendriksma, BS Biology

Joshua H. Herr, BA Political Science with Honors, Economics, German LaShawn C. Herron, BA Business/CAS Group

Trevor G. Herrygers, BA History, Social Studies,

Secondary Certification Patricia S. Hertel, BA English

Lauren A. Heyboer, BS Biology

Ann J. Heyer, BA Education/Three Minors, Elementary Certification

Katie L. Hiskes, BA

Karen A. Hoek, BSN

Nursing Robert J. Hoekstra, BS

Information Systems Bethany L. Hoekzema, BSN Nursing

Scott K. Hofman, BA Mathematics, Secondary Certification

Kayla J. Hollenbeck, BA Psychology

Samantha L. Holt, BA Psychology

Laura C. Holwerda, BA Business-Finance

Concentration Kellie J. Honderd, BSN

Nursing Robert W. Hoogenboom, BA

Business/CAS Group Solita J. Hoogendam, BSW

Social Work **David J. Hoogstra, BA** Economics with Honors

Scott A. Hooker, BS Biology Kari L. Hop, BA Speech Pathology & Audiology

Jacob K Hoskins, BA Classical Studies, Philosophy

Daniel J. Houseward, BSE Engineering-Mechanical Concentration

Valerie A. Hoving, BA Art, K-12 Certification

Genevieve M. Howell, BA English

Tatjcha A. Huberts, BA Spanish, Art History

Angela K. Hughes, BA Spanish, K-12 Certification

Jessica L. Huisenga, BA Speech Pathology & Audiology

Eric J. Huizenga, BA Business-Small Business Concentration

Matthew J. Huizenga, BA CAS-Media Production

Ryan T. Huizenga, BA Social Studies, History, Secondary Certification

Andrew J. Hulsebos, BA Business

Lander R. Hultin, BA Philosophy, English

Maria N. Huyser-Wierenga, BS Biology

Zig A. Ingraffia, BA Psychology

Brenda S. Irish Heintzelman, BA Psychology **Griffin P. Jackson, BA** Interdisciplinary, International Relations with Honors

Mittange Jacques, BA Psychology

Johanna M. Jahn, BSOT Occupational Therapy

Adrian R. Jaimon, BA Political Science

Anna E. Jansen, BA Spanish, K-12 Certification

Bradley M. Jansen, BA Business/CAS Group

Sarah A. Jarrard, BA Spanish, Elementary Certification

Sarah A. Jelgerhuis, BS Biology

Nathan J. Jen, BSE Engineering-Electrical & Computer Concentration

Elijah R. Jentzen, BSE Engineering-Mechanical Concentration

Seok H. Jeong, BA Philosophy, Greek

Anica B. Jeremie, BA Psychology

Jeremy J. Jerschina, BA Greek with Honors, International Dev Studies

Lindsey N. Jetter, BA Sociology

Benjamin K. Johnson, BS Biology

Benjamin P. Johnson, BSW Social Work

Hilary B. Johnson, BA Physical Education **Daniel P. Joldersma, BA** Physical Education

Katherine A. Jones, BA Interdisciplinary

Rebecca L. Jongsma, BA Speech Pathology & Audiology

Calvin B. Joustra, BA Physical Education

Michelle H. Jun, BA English

Joni A. Kaline, BA Interdisciplinary

Jacob P. Kalinowski, BS Biology

Daniel M. Kamer, BA Psychology

Eric D. Kamstra, BA Political Science, History

Eunbi Kang, BA Education/Three Minors, Elementary Certification

Jennifer Y. Kang, BA English

Emily E. Kaplan, BA Education/Three Minors, Elementary Certification

Michelle A. Kars, BA Physical Education

Aaron S. Keen, BA Economics

Jennifer L. Kelly, BS Group Science Major

Seth D. Kenbeek, BA Economics, Interdisciplinary

Theresa C. Keppler, BA Special Ed-Cognitive Impairm't, Elementary Certification James A. Kessel, BA Psychology with Honors

Anna Kim, BS Biochemistry, Biology

Hwa Jin Kim, BA Religion, Spanish, Greek

James P. Kim, BA Physical Education

Mag G. Kim, BA Art

Na Mi Kim, BA Special Ed-Cognitive Impairm't, Elementary Certification

Yoh Kyung Kim, BA Language Arts, Elementary Certification

Peninah W. Kimiri, BA Psychology

Kendra J. Kinzer, BA Business/CAS Group

Jacqueline R. Kirkman, BSE Engineering-Mechanical Concentration

Marie A. Kissane, BS Interdisciplinary, Japanese

Kyleigh A. Klaasen, BA Physical Education

Elizabeth L. Kladder, BSE Engineering-Mechanical Concentration

Sydney R. Kleinhenz, BA Psychology

Nathan W. Klingenberg, BA Religion

Daniel M. Kmetz, BA Mathematics

Daniel R. Knapper, BA English, Psychology Marian M. Knight, BA Psychology

Kimberly R. Knoester, BA Spanish, Elementary Certification

Bryan S. Knott, BSPA Accountancy

Nicole E. Koetsier, BA Education/Three Minors, Elementary Certification

Matthew H. Koh, BA English with Honors, Religion with Honors

Erin M. Kolo, BA History

Kristina N. Kontras, BA Psychology

Cody A. Konyndyk, BA Physical Education

Benjamin J. Konynenbelt, BS

Biology, Spanish Kaylee J. Kooiman, BA

Mathematics, French Rachel L. Koopman, BSE Engineering-Civil & Envi-

ronmental Concentration Emi Korematsu, BA Sociology

Ashley M. Kort, BA Speech Pathology & Audiology, Spanish

Adam M. Koster, BS Geology

Andrew G. Koster, BA Business, Spanish

Rychelle L. Kraay, BA Education/Three Minors, Elementary Certification Steven A. Kranenborg, BSE Engineering-Civil & Environmental Concentration, International Concentration

Grace C. Krol, BA Speech Pathology & Audiology

Steven M. Krommendyk, BA Political Science

Anna S. Kroon, BA Education/Three Minors, Elementary Certification

Alyssa J. Krudy, BSN Nursing

Jenna K. Kuiper, BA Art

James H. Kuipers, BS Geology

Caleb S. Kuntz, BA CAS-Media Studies

Stephanie N. Kurtz, BA Classical Studies, English

Rachel E. Kuyvenhoven, BA CAS-Media Production

Erin N. Laarman, BA Speech Pathology & Audiology

Katelyn R. Laarman, BSN Nursing

Christopher J. Lagestee, BSPA Accountancy

Hanna M. Lambers, BA Speech Pathology & Audiology

Lucas J. Lambers, BA Philosophy, Greek with Honors Benjamin J. Landenberger, BSPA Accountancy

Zachary L. Lanting, BSE Engineering-Civil & Environmental Concentration

Kaitlyn D. Larabel, BA Sociology

Tory L. Larsen, BA Psychology

Matthew J. Last, BSE Engineering-Mechanical Concentration

Sarah N. Leck, BSW Social Work

Kelly R. LeCoy, BA Business-Marketing Concentration with Honors

Daniel Lee, BA Sociology

Jaesung Lee, BSE Engineering-Mechanical Concentration

Joshua S. Lee, BA International Relations

Koh Eun Lee, BA Business/CAS Group, Art

Sak Lee, BSA Accountancy

Tae Hwan Lee, BSN Nursing

Lukas R. Leisman, BS Physics with Honors

Lindsey R. Lemmen, BA Psychology

Jessica M. Leugs, BA CAS-Film Studies

Lindsay R. LeVere, BA Education/Three Minors, Elementary Certification Jeffrey C. Li, BA CAS-Media Production, Music

Elissa M. Lier, BA Psychology

Rebecca S. Lim, BA Education/Three Minors, Elementary Certification

Kyle J. Lincoln, BA CAS-Theatre

Lorenzo A. Llerena, BA Philosophy

Joshua M. Locke, BSE Engineering-Mechanical Concentration

Michelle M. Lofe, BA Psychology

Edward D. Long, BA Philosophy Jennifer M. Long, BSR

Recreation Heather A. Loock, BME

Instrumental Music, K-12 Certification

Jonathan C. Lotton, BSE Engineering-Civil & Environmental Concentration, International Concentration

Melissa C. Lowe, BA English with Honors

Melissa Lucio, BA International Dev Studies

Erin K. Lundell, BA Business-Marketing Concentration

Stephen J. Lunger, BSPA Accountancy

Andrew J. Luth, BA History, International Relations John G. Lyzenga, BA CAS-Media Production

Brandon J. Maat, BA Business-Finance Concentration, Economics

Miriam R. Maier, BA Biology

Stephanie M. Malburg, BA Business-Human Resources Concentration

Sawyer A. Maneri, BA Business/CAS Group

Lisa R. Mange, BA Spanish

Caroline A. Marhin, BA French

Lindsay S. Marks, BA Political Science

Andrew R. Martin, BA Business-Small Business Concentration

Alyssa R. Massey, BA Chinese

Hannah S. Mast, BA Art

Loriel B. Maxwell, BA Education/Three Minors, Elementary Certification

Joshua D. McCarron, BS Biochemistry, Biology with Honors

Meghan A. McCarthy, BA Education/Three Minors, Elementary Certification

Philip B. McClelland, BA History

Kelly J. McCormick, BA English, Secondary Certification Victoria McCray, BA English

Cara L. McDonough, BA Japanese

James M. McDonough, BA History, Japanese

Hope E. McElroy, BA Business/CAS Group, Spanish

Elizabeth S. McMains, BS Biology

Megan E. Meadows, BA Spanish, K-12 Certification

William E. Medendorp, BA Psychology

Kailyn E. Meekhof, BS Biology with Honors, Spanish

Scott T. Meekhof, BA Business/CAS Group

Scott R. Mehlberg, BSE Engineering-Mechanical Concentration, International Concentration

Brandt E. Memmelaar, BA Interdisciplinary

Justin T. Menkveld, BA Computer Science

Paul J. Meppelink, BS Biochemistry

Christine M. Merola, BA Psychology with Honors, English with Honors

Kerrisan J. Meyer, BA CAS-Rhetoric

Nathan S. Meyer, BSE Engineering-Electrical & Computer Concentration

Tara C. Meyering, BSN Nursing Eric D. Michel, BSE Engineering-Chemical Concentration

Whisper K. Miller, BA Special Ed-Cognitive Impairm't, Elementary Certification

Samuel C. Mindes, BA Sociology

Esther J. Minnesma, BSN Nursing

Andrew J. Mis, BA Mathematics

Michael J. Molling, BA Economics

Eddie D. Morgan, BA Business/CAS Group

Jacob L. Morren, BA Business/CAS Group

Daniel C. Morrison, BSN Nursing

Leah M. Morrison, BSE Engineering-Civil & Environmental Concentration

Michael J. Mosher, BA Mathematics, Philosophy

Erin J. Mouw, BA Psychology

Karisi Mpindi, BA Religion

Aaron M. Muilenburg, BA Psychology

Jonathan D. Mulder, BSE Engineering-Mechanical Concentration

Ryan C. Mulder, BA English, Secondary Certification

Pamela M. Muliba, BSPA Accountancy Henry A. Muller, BA Psychology

Hilary D. Muller, BA Psychology

Shane M. Muller, BSE Engineering-Mechanical Concentration

Caleb M. Mutschler, BSE Engineering-Chemical Concentration, Chemistry

Carolyn A. Nelson, BSN Nursing

Michael J. Newby, BA Business-Marketing Concentration

Christianna N. Nicholson, BA Education/Three Minors, Elementary Certification

Theodore M. Nicholson, **BSR** Recreation

Andrew W. Nieboer, BA Business-Small Business Concentration

Cara E. Noordyke, BA Education/Three Minors, Elementary Certification

Emily J. Norman, BA Speech Pathology & Audiology

Jayme M. Noteboom, BSN Nursing

Leigha J. Oberle, BA Business/CAS Group, Physical Education

Emily J. O'Brock, BA French with Honors, English with Honors Eun Hye Oh, BSN Nursing

Emi C. Okayasu, BS Biology with Honors, Philosophy with Honors

Sarah E. Oliver, BA International Relations, French

Peter J. Olthoff, BA Psychology, CAS -Film & Media Studies

Sarah A. Oord, BA History, Psychology, Secondary Certification

Melissa J. Oosterhouse, BS Biology

Christine E. Orlando, BA Special Ed-Cognitive Impairm't, Elementary Certification

Sarah K. Orndorff, BA Business/CAS Group

Derek J. Ornee, BA English

Jeffrey A. Osterbaan, BSA Accountancy

Nicholas A. Osterhaven, BA Business/CAS Group

Kyria J. Osterhouse, BA Art, Art History

William I. Overbeeke, BA Interdisciplinary

Patrick J. Owusu Akyaw, BA Economics

Ashley M. Pace, BA Interdisciplinary with Honors

Aeri J. Paek, BS Biology with Honors Briana J. Page, BA Special Ed-Cognitive Impairm't, Elementary Certification

Camilla D. Page, BA English

Hans N. Palma, BA Business-Operations Concentration

Stephen D. Panaggio, BA CAS-Media Production

Eugene S. Park, BA Business

Jeanie S. Park, BS Biology

So Heon Park, BA International Relations, French

Kathryn A. Pasek, BSR Recreation

Andrew M. Pastoor, BA Education/Three Minors, Elementary Certification

Lauren R. Pastoor, BA CAS-Rhetoric

Steven J. Pastoor, BA Mathematics

Megan V. Patzke, BA Speech Pathology & Audiology

Joseph P. Pepoy, BA Business-Marketing Concentration

Brianna A. Perez, BA Interdisciplinary

Kyle R. Persenaire, BA Business-Finance Concentration

Amy D. Petersen, BSW Social Work Elizaveta P. Petrenko, BS Biology

Audrey E. Petrini, BA Business-Human Resources Concentration

Lisa M. Philippon, BA English

Nancy R. Pick, BA Political Science

Samantha L. Pidduck, BA French, CAS-Media Production

Douglas W. Pittman, BA Education/Three Minors, Elementary Certification

Julie M. Pluymert, BA Education/Three Minors, Elementary Certification

Corrie L. Poelman, BA Philosophy, Sociology

Brian D. Pohler, BSPA Accountancy

Steven E. Pohler, BSE Engineering-Chemical Concentration with Honors, Chemistry, International Concentration

Megan E. Porter, BSN Nursing

Rachel J. Porter, BA Spanish, English, Secondary Certification

Maria C. Post, BA English, Spanish

Julia E. Postema, BSW Social Work

Kyle W. Pott, BA Business-Marketing Concentration **Linsey M. Pott, BA** Special Ed-Cognitive Impairm't, Elementary Certification

Karen J. Powell, BSN Nursing

Julie K. Pranger, BA History

Caitlin M. Prins, BSN Nursing

Carly A. Prins, BA Physical Education, K-12 Certification

Jay P. Prins, BSE Engineering-Mechanical Concentration

John P. Quakenbush, BS Biology

Nathan K. Quist, BCS Computer Science

Kyle W. Ramthun, BA Physical Education

Aravind Ranganathan, BA Information Systems

Aaron M. Rask, BA Business/CAS Group, US Army ROTC, 2nd Lieutenant

Aaron C. Rathbun, BA Philosophy

Kevin E. Rauwerda, BSPA Accountancy

Sarah A. Reasoner, BA

Anna J. Recker, BSN Nursing

Jacob S. Redeker, BSE Engineering-Civil & Environmental Concentration Melinda D. Reed, BA

Bradley K. Rekman, BSE Engineering-Chemical Concentration

Stephanie M. Rentschler, BSBA Biology, BA, Political Science

Jonathan E. Repeta, BA Business/CAS Group

David T. Ribbens, BSR Recreation

Christina J. Richards, BA English

William L. Richert, BA Business-Human Resources Concentration

Shawn M. Richter, BA Art

Luke B. Ridout, BA English, Dutch

Daniel A. Rietema, BS Biochemistry

Abigail M. Rigg, BA Religion

Luther J. Rigg, BA Geography

Samantha A. Ripley, BA Education/Three Minors, Elementary Certification

David M. Robb, BA Business, Economics

Jessica L. Roberts, BS Biology

Haley N. Robinson, BSN Nursing

Daniel C. Rodts, BA Physical Education Eric J. Roelofs, BA Social Studies, Secondary Certification

Carissa L. Roer, BA Special Ed-Cognitive Impairm't, Elementary Certification

Christopher D. Romero, BSW Social Work

Brittany E. Roode, BA Spanish, K-12 Certification

Jillian B. Roos, BS Biology

Lara D. Rosema, BSN Nursing

Matthew J. Rozema, BSE Engineering-Electrical & Computer Concentration

Branden E. Rudie, BA CAS-Theatre, International Dev Studies

Zachary J. Runge, BA Business/CAS Group

Kristina A. Russie, BA Interdisciplinary

Emily K. Rustemeyer, BA Psychology

Keun Ah Ryu, BS Chemistry

Mieke E. Ryzebol, BA Spanish, Elementary Certification

Matthew J. Salie, BS Biochemistry

Trent D. Salo, BA Physical Education

Joseph M. Salowitz, BA Interdisciplinary with Honors

Organizational Leadership

Bethany A. Sanders, BA Psychology

Mark P. Sanders, BA Psychology

Heather J. Sanderson, BA Integrated Science Studies, Elementary Certification

April J. Sarbu, BA Education/Three Minors, Elementary Certification

Megan M. Schafer, BA Special Ed-Cognitive Impairm't, Elementary Certification

Abigail E. Schartner, BA English, Spanish, Secondary Certification

Anna L. Schipper, BSN Nursing with Honors

Kristen K. Schipper, BS Biology, Philosophy

Karen R. Schippers, BA Special Ed-Cognitive Impairm't, Elementary Certification

Elaine S. Schnabel, BA English

Chelsea A. Schnabelrauch, BA Psychology

Emily M. Schrik, BA Physical Education

Joshua S. Schroyer, BA CAS-Media Production

Nicolas A. Schuck, BS Physics

Karie R. Schulenburg, BA English, Classical Studies

Brent A. Schuster, BA Physical Education Allison L. Schutt, BSW Social Work

Janelle C. Schuurman, BA Spanish, Elementary Certification

Kaitlin E. Scripsema, BA Art, Art History

Laura E. Semmelman, BA Psychology

Thomas D. Sherwood, BSW Social Work

Kathryn L. Shick, BA Art, Interdisciplinary

Aletheia H. Shin, BFA Art

Katherine N. Shomsky, BS Physics

Tiffany J. Shomsky, BA Music

Kyle D. Shutz, BA Political Science

Beatrice O. Siaw, BA Psychology

Daniel J. Signore, BA Physical Education, K-12 Certification

Elizabeth A. Sikkenga, BSN Nursing with Honors

Joseph L. Singer, BS Biology

Andria D. Slappendel, BA Business-Finance Concentration

Matthew W. Slater, BSE Engineering-Chemical Concentration

Stephanie H. Slotsema, BA Mathematics, Integrated Science Studies, Secondary Certification Jacob D. Smies, BA Business

Nichole M. Smith, BA Psychology

John C. Snider, BS Biochemistry with Honors

Tricia M. Snoeyink, BS Integrated Science Studies, Elementary Certification

Laura E. Snyder, BSE Engineering-Chemical Concentration

Patrick N. Snyder, BA Computer Science

Andrew M. Solorio, BA Social Studies, Elementary Certification

Joseph H. Sonheim, BA Business/CAS Group

Annika L. Soule, BA Physical Education

Jolena Spalink, BSN Nursing

Brian D. Speelman, BA Computer Science

Keith W. Spoelstra, BA International Relations

Ryan J. Sprague, BA Asian Studies

Darcy A. Squires, BSN Nursing

Jordan M. Squires, BA Art

Daniel H. Stahl, BA Economics

Anna M. Starkey, BSR Recreation

Hope A. Start, BA Spanish, International Dev Studies Cristina N. Stavro, BA CAS-Rhetoric

Elizabeth N. Steele, BA English with Honors, Secondary Certification

Peter O. Steen, BA Social Studies, Secondary Certification

Andrew M. Steenstra, BA Social Science Group

Alyssa J. Steiginga, BA Business/CAS Group

Lynae D. Steketee, BA Physical Education, K-12 Certification

Dylan D. Stelpstra, BA Sociology

Jared T. Sterenberg, BA Social Studies, History, Secondary Certification

Avery M. Sterk, BSE Engineering-Electrical & Computer Concentration

Catherine A. Sterk-VanHalsema, BA German with Honors

Jessica A. Stob, BA Special Ed-Cognitive Impairm't, Elementary Certification

Jonathan T. Stoner, BA CAS-Film Studies

Susan R. Stouwie, BSN Nursing

Cory A. Strengholt, BSA Accountancy

Thalia J. Stroobosscher, BA Psychology

Hannah E. Stump, BA International Dev Studies Leighanne E. Sturgis, BA Art

Ana R. Stutler, BA International Relations with Honors

JiHoon Suh, BA Psychology

Heidi H. Sundstrom, BA German, CAS-Rhetoric with Honors

Amy J. Surbatovich, BA English with Honors, CAS-Film Studies

Taylor H. Swart, BA CAS-Rhetoric

Anna R. Swierenga, BA Art

Kaitlin J. Swierenga, BA Speech Pathology & Audiology

Michael S. Swierenga, BS Geology

Renae E. Sybesma, BSN Nursing, Spanish

Curtis E. Syswerda, BA Mathematics, Secondary Certification

Nathan R. Sytsma, BSPA Accountancy

Hallie E. Szott, BA English, Spanish

Zachary E. Talen, BSE Engineering-Mechanical Concentration

Andrew R. Taylor, BA Sociology

Zenobia R. Taylor-Weiss, BA International Dev Studies

Jason R. Terpstra, BA Religion Todd A. Terrazas, BA Business-Finance Concentration

Samuel J. Teune, BS

Biology Eric C. Thayer, BA CAS-Film Studies

Daniel M. Tiersma, BA Business-Small Business

Concentration Megan A. Tiesenga, BA Business-Marketing Concentration

Nicole J. Tigchelaar, BSW Social Work

Jonathan R. Tilton, BA CAS-Media Studies

Ashley N. Timmerman, BA Psychology Evan M. Timmerman, BS

Biotechnology Shawn D. Tindall, BA Business-Marketing Concentration,

International Relations Bartholomew J. Tocci, BA English

Laura J. Trevisan, BCS Computer Science

Ian L. Trice, BA Sociology

Nathan D. Triezenberg, BA Political Science

Brianne V. Tuinstra, BSR Recreation

Danielle A. Turner, BA Psychology

Monica J. Turner, BS Chemistry, Secondary Certification Alison L. Tuuk, BA Business-Marketing Concentration

Joshua J. Uitvlugt, BSE Engineering-Civil & Environmental Concentration

Kaleigh R. Umlauf, BA Education/Three Minors, Elementary Certification

Diane B. Umoh, BA Business-Marketing Concentration

Carissa W. Utter, BSN Nursing

Michael A. Valdez, BA Business/CAS Group, CAS-Mass Media

Ethan S. Van Andel, BCS Computer Science with Honors, Mathematics with Honors

Jared V. Van Baren, BA Business-Small Business Concentration

Ryan N. Van Baren, BSA Accountancy

Kimberly A. VandenAkker, BA International Dev Studies, Spanish

Michelle L. Vanden Berg, BA

Interdisciplinary Peter W. VandenBerg, BS

Comp Integrated Sci Studies, Secondary Certification

Jillayne van den Brink, BSW Social Work Sean L. VandenBrink, BFA Art Brianna K. Vanden Ende,

BA Speech Pathology & Audiology

Justin H. Van Den Heuvel, BA Business/CAS Group

Jacob R. VandePol, BA Social Studies, Secondary Certification

Christopher J. Vander Baan, BA Biology

Simeon L. VanderBaan, BA Information Systems

Christopher L. VanderBand, BA Business-Marketing Concentration

Mark R. Vander Bent, BSA Accountancy

Marcus K. VanderBrug, BSE Engineering-Civil & Environmental Concentration

Kayla R. Vanderburgh, BA Integrated Science Studies, Elementary Certification

Emily J. Vander Haak, BA Art, K-12 Certification

Kyle J. Vander Helm, BA Political Science

Andrea M. Vander Kamp, BA Psychology

Lisa A. Vanderkamp, BA Psychology Courtney R. Vanderlaan, BSW Social Work Kelli S. Vander Laan, BSN Nursing, Spanish

Holly M. VanderLeest, BA Speech Pathology & Audiology

April J. Vander Molen, BA Education/Three Minors, Elementary Certification

Benjamin J. Vander Plas, BSE Engineering-Civil & Environmental Concentration

Thomas P. Van Der Schaaf, BS Biology, Spanish

Brett M. VanderVeen, BA Computer Science

Joel C. Vanderveen, BA Business-Marketing Concentration

Robert D. VanderVennen, BSE Engineering-Mechanical Concentration

Christina J. VanderWeide, BA Business/CAS Group, Psychology

Christopher P. Vanderzee, BA Spanish

Daniel J. Vander Zee, BA Sociology

Nicole M. Van Drunen, BSN Nursing

Brandon J. Van Dyk, BSE Engineering-Civil & Environmental Concentration, International Concentration **Rebekah B. Van Dyk, BA** Education/Three Minors, Elementary Certification

Karen L. Van Dyke, BSW Social Work

Laura E. Van Dyke, BA Philosophy

Brian D. Van Eck, BA Business-Human Resources Concentration

Brook M. VanEck, BA Special Ed-Cognitive Impairm't, Elementary Certification

Joshua A. Van Eck, BA Business-Marketing Concentration

Kenneth J. Van Ek, BA Psychology

Erika A. Van Geest, BA English, History

Bryan P. Van Harn, BA Business-Small Business Concentration

Theodore E. Van Hoek, BSPA Accountancy

Magdalyn A. Van Huizen, BA CAS-Rhetoric, French

Nicholas R. Van Klompenberg, BSE Engineering-Electrical & Computer Concentration

Richard R. VanLaar, BSPA Accountancy

Courtney F. Van Maanen, BA Business/CAS Group

Abbey E. Vannette, BSN Nursing Kaile S. VanOene, BA Music, CAS-Theatre

Lauren C. Van Rooyen, BA Education/Three Minors, Elementary Certification

Mallissa J. Van Rooyen, BA Business-Small Business Concentration

Kurt L. Van Sickel, BSA Accountancy

Lauren R. Van Stedum, BA Business-Marketing Concentration

Emily E. Van Stee, BA English, Secondary Certification

Lynn N. Van Strien, BA Physical Education

Anna K. VanWyk, BS Biology

Benjamin R. Van Wyk, BA Social Studies, History, English, Secondary Certification

Kristen S. VanZanten, BA Spanish

Kay S. Varela, BA Political Science, Sociology

Stephanie A. VarnHagen, BA Business-Finance

Concentration, Japanese

Allison J. Veen, BA CAS-Rhetoric

Tyler J. Veldkamp, BS Biology

Debora E. Velis Guzman, BA Economics

Randall J. Venema, BSE Engineering-Civil & Environmental Concentration Matthew J. Venhousen, BA Business-Human Resources Concentration

Nicolas D. Vera, BA CAS-Rhetoric

Benjamin C. Verhulst, BA Political Science, Philosophy

Alex T. Verseput, BSE Engineering-Chemical Concentration, Biochemistry

Garrett J. Veurink, BA CAS-Media Studies

Rachel L. Victor, BSW Social Work

Philip M. Videtich, BA Spanish

Isaac J. Vis, BA Interdisciplinary

Elise M. Visbeen, BA Speech Pathology & Audiology

Gregory P. Vondiziano, BA Interdisciplinary, French with Honors

Brandon T. Vonk, BSE Engineering-Electrical & Computer Concentration

Brittany L. Vos, BA Sociology

Bailey Voss, BA Physical Education

Jena M. Wagner, BA Psychology

Paulina N. Wakula, BA Business/CAS Group

Eric J. Walcott, BA International Relations

Kelly H. Wallace, BSN Nursing Eunice W. Wangari, BS Biology

Molly B. Warners, BSN Nursing

Mary A. Warpinski, BSN Nursing

Holly J. Warren, BS Biology

Jared N. Warren, BA History with Honors, French with Honors

Andrea J. Wassink, BSN Nursing

Christina S. Weaver, BA Speech Pathology & Audiology

Nicole Weesjes, BA Speech Pathology & Audiology

Lauren J. Weidenaar, BA Business/CAS Group

Nathan A. Weiford, BS Geology

Jennifer M. Welch, BA Japanese, History

Kyle N. Weld-Wallis, BA Physical Education

David M. Westfall, BA Classical Studies, Greek with Honors Tyler D. Westman, BSPA Accountancy

Samantha J. Westveer, BS Biology

Amy M. White, BA German

Steven P. Wideman, BME Vocal Music, K-12 Certification

Clay D. Wielard, BA Physical Education

Kelly J. Wierenga, BS Integrated Science Studies,

Secondary Certification Peter J. Wierenga, BA Business-Marketing Concentration, Psychology

Andrew T. Wiersma, BS Biology

Kendrick G. Wiersma, BSE Engineering-Electrical & Computer Concentration

Kristin J. Wiersma, BSN Nursing

Kimberly A. Wigboldy, BA Physical Education

Jessica P. Wilbur, BSN Nursing

Lucas B. Wilgenburg, BA Business-Small Business Concentration Thomas S. Wilhelm, BS Physics

Grace J. Willemstyn, BS Biology

James M. Williams, BA Economics

Claire E. Wilson, BA Art, Art History

Brianna J. Wimmer, BA Spanish, Secondary Certification

Hannah E. Winters, BA International Relations

Jonathan C. Witte, BA Business-Finance Concentration

Nia M. Wolfe, BA Psychology

Silas E. Wolff, BA Interdisciplinary

Tze Yuin S. Wong, BA English with Honors

Jessica L. Workman, BSR Recreation

Alexander J. Wrobel, BS Chemistry

Alisha A. Wynia, BA International Dev Studies, Political Science **Callae J. Yonker, BA** Spanish, Elementary Certification

Sungmin Youn, BSE Engineering-Civil & Environmental Concentration

Elizabeth A. Young, BSA Accountancy

Michael C. Zahrt, BA Philosophy

Pamela C. Zak Proano, BA CAS - Strategic Communication

Scott E. Zeilstra, BS Biology

Yeheng Zhou, BSPA Accountancy

Andrew M. Ziegler, BSPA Accountancy

Ellen L. Zilka, BA Education/Three Minors, Elementary Certification

Chelsea R. Zimmerman, BA Geography

Nicole D. Zimmerman, BA Physical Education, K-12 Certification

Patricia J. Zomermaand, BA Economics

THREE-YEAR CERTIFICATE IN OCCUPATIONAL THERAPY

Jessica A. Lubben

Kristin P. Miller

Samantha R. Visser

Departmental Banners

Throughout history, colorful banners have been used to mark important religious and civic events and to celebrate the vision and spirit of the participants in such events. The departmental banners displayed at this occasion arise from an awareness of this tradition and are meant to continue it. Besides symbolically revealing the richness of the various disciplines at Calvin College, the banners graphically represent their distinctiveness. Although their colors are mostly in keeping with traditional associations—scarlet for religion and theology, blue for education, orange for engineering—their forms combine the traditional, the contemporary, and the abstract.





Biology

Art and Art History



Business





Chemistry and

Biochemistry

Classical Languages

Communication Arts and Sciences



An abstract eye and hand symbolize artistic expression through the artist's sense of sight and touch. Bright colors against black suggest creative boldness.

Biology Department

Dominating the biology banner is a symbol representing the structure of the DNA molecule, deoxyribonucleic acid. The structure of this fundamental material of life, the chemical basis of heredity, was revealed in 1953 and actually photographed in 1969.

Business Department

The banner of the Business Department depicts a visual representation of business as a nexus of relationships between people. A Christ centered education is symbolized by the center vertical column and the horizontal shape of human figures forming a cross. The center vertical, white column also symbolizes the light of learning and the presence of the Holy Spirit in education.

Chemistry and Biochemistry Department

The main symbol used in this banner is the electron distribution for tetrahedral hybrid orbitals, which represents the chemical activity of the elements and their compounds. Two segments of a crystal structure are included in the design, which are also the floor plan shape of the science building. The shaft of pale yellow symbolizes the light of investigation. Yellow is the traditional color associated with science.

Classical Languages Department

While the lyre and the wolf may be taken individually as symbols of Greece and Rome, together they portray the unity of the two civilizations and its cultural achievement, the union of art and nature, and of poetry and myth. Horace has given this continuity and fusion of the two traditions of Greece and Rome its classical literary expression in his odes, of which none better, perhaps, than the "Integer vitae" ode conveys the intention of this banner.

Communication Arts and Sciences Department

Sound waves emanating from a central core symbolize communication through speech and drama. The reversal of the outward movement suggests feedback in communication. Silver gray is the color traditionally assigned to speech and drama.





Computer Science

Economics

Engineering

French





Education



English



Geology, Geography, & Environmental Studies

Computer Science Department

The banner of the Computer Science Department features a Turing machine, the foundational model of digital computation. The zeroes and ones on its tape reflect the binary logic by which digital computation is implemented. The changing colors and order of the numbers express the transition as data move from input through processing to output. The white shaft and its golden sheath symbolize the light and energy of education and the sciences. The flowing wind symbolizes the transforming work of the Holy Spirit as it infuses the discipline of computing.

Economics Department

Shapes and lines express the charting and planning of economic budgets. Subtly appearing among other symbols is a cross expressing the Christ-centered teaching of economics at Calvin College. Copper is the color associated with economics.

Education Department

The relationship of teacher and student in the educational process is represented by the forceful interaction of shapes in this design. The white shaft symbolizes the light of learning in the Holy Spirit. Blue is traditionally linked with education.

Engineering Department

The Engineering banner illustrates the key activity of engineers, namely, their involvement with the design process, an iterative, decision-making sequence. Steps in the sequence, represented by circles and rectangles, are connected by arrows to indicate the movement from the initial problem statement to final solution. Two-way arrows suggest the possibility of sequence reversal. Orange traditionally designates engineering.

English Department

The two main symbols, the lion and the eagle, represent England and the United States of America. The lozenge pattern in the background expresses the pageantry of England during the development of the English language.

French Department

The banner of the Department of French features the Coq Gaulois, long a national emblem of France, and Arch of Triumph, a symbol of French patriotism. The cock, traditionally the Christian symbol for watchfulness, has been adopted as its symbol by a nation which since its inception has been one of the important cradles of Christian thought and practice. The colors of the national flag are represented by the Coq Gaulois.

Geology, Geography, and Environmental Studies Department

Earthkeeping, the human community's care for God's earth, is symbolized in the banner for the Department of Geology, Geography, and Environmental Studies by representations of atmosphere, mountains, cities, water, and the various levels of the earth's interior. The white shaft symbolizes the light and energy of learning stimulated by the Holy Spirit.





Health, Physical

Education,

Recreation,

Dance & Sport

Germanic & Asian Languages & Literatures





Library

History





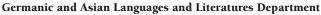
Mathematics & Statistics





Nursing

Philosophy



The study of the Dutch and German languages is represented by symbols taken from emblems of the countries associated with these languages. The traditional black eagle represents Germany, and the orange lion is from the seal of the Netherlands. The white shaft symbolizes the light of learning.

Health, Physical Education, Recreation, Dance, and Sport Department Engaged in exercise, sports, and dance, a person in motion is suggested by

the movement of rhythmical shapes and lines. Sage green is the color associated with physical fitness.

History Department

Jagged horizontal bands, representing both the rise and fall of civilizations and the four kingdoms as described in the Book of Daniel, move across vertical time lines, which also symbolize the dramatic influence of Christ on history.

Library

The library as a gatherer, receptacle, and distributor of information, ideas, and learning is represented by the abstract book shape, while the white, flowing shaft itself symbolizes the light and energy of learning in the Holy Spirit of God. The flame is the traditional symbol of learning and discovery through research.

Mathematics and Statistics Department

Mathematicians have always saved time and effort by substituting symbols for words. The basic arithmetical steps of adding, subtracting, multiplying, and dividing are depicted on this banner by some of the earliest ways of writing them down.

The Renaissance calculator Tartaglia used the first letter of the Italian word for plus to signify adding. Diophantus favored this minus sign in Greek times. Leibniz employed this multiplication symbol in 17th-century Germany. J. E. Gallimard used this reverse D for division in 18th-century France.

Music Department

The design of the Music banner emphasizes the rhythms of musical sounds. Shapes and lines suggest strings, valves, keys, horn bell, drum, and other musical forms. Radiating circles suggest sound waves. The colors express the various moods of music.

Nursing Department

The traditional emblem of nursing, Florence Nightingale's lamp, is featured in the banner for the Department of Nursing. The flame of the lamp symbolizes the light of Christian compassion and education. The gold of the lamp is the traditional color for science. The background apricot color is the academic regalia color for nursing, while the white shaft represents peace through the Holy Spirit.

Philosophy Department

Light refracted through a transparent prism symbolizes the many-faceted investigations of fact and of principles of reality and of human nature and conduct.









Physics and Astronomy

Political Science

Religion

Spanish

Physics and Astronomy Department

The construction of elements is symbolized in the Physics banner by the simplest atom, hydrogen, with its single proton and electron. Also included in the design are a tracing of the paths of particles from an atom and a segment of a crystal structure which is also the floor plan shape of the science building. The yellow shaft symbolizes the light of investigation.

Political Science Department

The banner of the Department of Political Science features a representation of the fasces, a symbol of the authority of the state, and arrows that express the direction and flow of the analytical and holistic nature of the process of law. The fasces, a bundle of rods bound about by an ax with projecting blade, was carried before ancient Roman magistrates as a symbol of authority. The white shaft of seven rods also symbolizes peace and enlightenment through the Holy Spirit.

Psychology Department

The Greek letter PSI, the first letter of the Greek word psyche (the mind), traditionally signifies the discipline of psychology. The color red symbolizes emotion; blue, rationality; and white, peace through the Holy Spirit.

Religion Department

Three symbols of the Trinity-circle, cross, and dove-express the fullness of God as He reveals Himself as Creator, Savior, and Counselor. These symbols are interlocked to depict the oneness of God. The shaft of white is the light of learning in Christian education guided by the Holy Spirit. Scarlet is traditionally associated with theology.

Sociology and Social Work Department

The central concept of sociology, represented by the inner circle, is a person interacting with other people to form groups. Total human society, represented by the broken circle, is composed of many small units forming a larger interrelated structure. All groups, from the family to society itself, exist within a framework of social norms. This normative or cultural framework, represented by the unbroken outer circle, promotes conformity, as suggested by the arrows directed from it toward the inner circles of society and the smaller group.

Spanish Department

The banner of the Spanish Department features the traditional symbols of the historical kingdoms of Castilla (castle), León (lion), and Aragón (red and yellow bars). These Christian kingdoms emerged during the eight-hundred-year-long reconquest of the Iberian Peninsula from domination by Muslim rulers. The separate kingdoms were joined through the marriage of Ferdinand and Isabella, and eventually coalesced into the modern nation of Spain.





Psychology

Sociology & Social Work

Banners:	Robin A. Jensen	
Building arrangements:	Nathan Britcher, Richard Field, Sandy Palmatter, Stafford Trapp, and Tim VerStrate	
Commencement Committee:	Peter Tigchelaar and Jeff Stob, co-chairs, Donna Anema, Rick Balfour, Abigail Belford, Susan Buist, Ada Castle, Sharolyn Christians, Robert Crow, June DeBoer, Connie Porte, Mary Jeanne Quist, Diane Vander Pol	
Commencement Participants:	Brian Bolt, Chad Engbers, Debra Freeberg, Kathi Groenendyk, Stanley Haan, Larry Louters, Karen Saupe, Mark Williams	
Covenant Fine Arts Center Host:	Russell Bloem, Vice President for Enrollment Management	
Chapel Host:	Cheryl Brandsen, Dean of Social Sciences and Contextual Disciplines	
Litany:	James Vanden Bosch, Professor of English	
Faculty Marshals:	Thomas B. Hoeksema, Professor of Education, Beryl L. Hugen, Professor of Social Work	
Student Marshals:	Alex Cortez, Jorie Ellens, James Kessel, Monica Turner	
Design:	Calvin College Communications and Marketing	
Flowers:	Eastern Floral	
Publicity:	Phil de Haan, Director of Communications and Marketing; Michael J. Van Denend, Executive Director, Calvin Alumni Association	
Signer:	Rose Gelushia	
Technical Assistance:	Video Productions, Conferences and Campus Events Technical Services, Calvin Information Technology	
Reception:	Commons lawn (rain location: Huizenga Tennis and Track Center)	