

**Sauk Valley Community College
March 17, 2025**

Action Item 4.11

Topic: Faculty Appointment – Mathematics

College Health Metric: Academics – The College provides quality, contemporary, and relevant educational opportunities to the community

Presented By: Drs. David Hellmich and Jon Mandrell

Presentation:

The administration has been in the process of hiring a mathematics faculty member. The position was advertised online on Sauk Valley Community College’s website, *Chronicle of Higher Education*, and *HigherEdJobs.com*. The College received thirty-two applicants. Seven candidates were invited for an on-campus interview. A committee was composed of Carrie Conderman, Evan Hunziker, Jennifer Brown, and Jessica Wilkin. Dr. Patrice Hess, Dean of Transfer Programs and Academic Support Services, served as Chair.

Academic Background: Andreas Soemadi received his Master’s in Mathematics from Texas Tech University and his Master’s in Physics from the University of Iowa. He received his Bachelor’s in Geophysics from Texas Tech University.

Professional Background: Andreas was employed by Kirkwood Community College in Iowa City for 18 years as a full-time mathematics professor. Currently, he is working at North Iowa Area Community College in Mason City as a full-time professor in physics and has been there for seven years.

Recommendation:

The administration recommends the Board approve the appointment of Andreas Soemadi as a Professor of Mathematics beginning August 8, 2025, at an annual base salary of \$92,421.13.

From: Andreas Soemadi [andreassoemadi@gmail.com]
To: Sauk Valley Community College
Subject: Mathematics teaching position at Sauk Valley Community College

January 6, 2025

Dear selection committee members:

Your posting for Mathematics Instructor captured my serious interest. My 24 years' experience as a physics and mathematics full time instructor at North Iowa Area Community College and Kirkwood Community College respectively, provides me with all the skills and expertise you seek.

Some key points you may find relevant include:

- *Well-developed teaching skills and commitment to the comprehensive community college philosophy.*
I obtained the skills and commitment through my teaching career at North Iowa Area Community College (NIACC) and at Kirkwood Community College in Mason City, IA and Cedar Rapids, IA respectively.
- I have experience with assessment of student learning outcomes, SLO. Every year, at NIACC, I must evaluate SLO of each course on its relevant the ILO, the institutional learning outcome, and on how well students perform in achieving each outcome. It is a matter of importance to vary or alter the facilitation of learning techniques if a learning outcome is not satisfactorily achieved.
- I obtained MS degree in physics from the University of Iowa and MS degree in mathematics from Texas Tech University.

Thank you for your time and consideration. I look forward to speaking with you. Please contact me via text, phone or email to arrange a mutually convenient date and time for us to meet.

Sincerely

Andreas Soemadi

Andreas H. Soemadi

My professional life is focused on providing instruction and assessing students learning in mathematics and physics at collegiate level. With colleagues, I collaborate to develop, maintain, review and revise curriculum, courses, and activities to promote student success and lifelong learning. Knowledge and awareness of subject matter are maintained through professional organizations, seminars, colloquium, and taking formal online classes. Service for local community is realized through local Rotary Club and through mathematical art activities.

Performance Highlights

Teaching

- North Iowa Area Community College, Mason City, Iowa, 8/2018 – present: full time, physics
- Kirkwood Community College, Iowa City Campus, Iowa, 8/2000 – 8/2018: full time, mathematics
- University of Iowa, Iowa City, IA, Dept. of Physics, 1989 – 2000: part time, teaching/research assistant, physics
- Texas Tech University, Lubbock, TX, Mathematics Dept. 1986 – 1989: part time, teaching assistant, mathematics

Lifelong learning (online)

- **Australia National University:** Astrophysics

https://courses.edx.org/certificates/eb7cc0480ae34804a31b4c3062021e6b?_gl=1*5buz0z*_ga*NDE1MjM2NTI3LjE3MTAxNzMwMjQ.*_ga_D3KS4KMDT0*MTcxMDE3MzAyMy4xLjEuMTcxMDE3MzQzMS4wLjAuMA..

https://courses.edx.org/certificates/e5c392e502b84ffa965c14c281afae7?_gl=1*1if6a7a*_ga*NDE1MjM2NTI3LjE3MTAxNzMwMjQ.*_ga_D3KS4KMDT0*MTcxMDE3MzAyMy4xLjEuMTcxMDE3MzE3NS4wLjAuMA..

- **Delft University of Technology:** Understanding Nuclear Energy

https://courses.edx.org/certificates/8bf36af4db7049469acd55e47e762047?_gl=1*3d39ml*_ga*NDE1MjM2NTI3LjE3MTAxNzMwMjQ.*_ga_D3KS4KMDT0*MTcxMDE3MzAyMy4xLjEuMTcxMDE3MzU0MC4wLjAuMA..

- **Massachusetts Institute of Technology:** Classical Mechanics, Quantum Mechanics, Atomic and Optical Physics

<https://courses.edx.org/certificates/d241c00e2462475da4057b3690cae72c>

<https://courses.edx.org/certificates/34c8fea77bfd4b31b47ce11da5ee1e4e>

<https://courses.edx.org/certificates/4232a6a5c6e64d92b0d1b486a43c2659>

<https://courses.edx.org/certificates/0bb0bf223321441ca2d9a84dff32c83e>

- **Harvard University :** Introductory Astronomy - Super Earths and Life

<https://courses.edx.org/certificates/98b9dab06ca440b299f210b8624773aa>

- **Kyoto University :** Prime Numbers

<https://courses.edx.org/certificates/d5948c602a274d7ebd92f8d874056ad4>

Publications

- Precise determination of the energy levels of the anharmonic oscillator from the quantization of the angle variable. J. Phys. A 28 (1995), no. 14, L381–L385.

<http://www.ams.org/mathscinet-getitem?mr=96d%3A81034>

- Extended Gaussian quadrature and the identification of linear systems. Nonlinear synthesis (Sopron, 1989), 185–199, Progr. Systems Control Theory, 9, Birkhäuser Boston, Boston, MA, 1991.

<http://www.ams.org/mathscinet-getitem?mr=92j%3A93036>

Textbooks reviewer

- Finite Mathematics and Calculus with Applications, Lial, Greenwel, Ritchey, 7th edition, ISBN:0-321-228235
<https://isbnsearch.org/isbn/0321228235>
- Calculus for the life sciences, Bittinger, Brand, Quintanilla, 1st edition, ISBN:0-321-27935-2
<https://isbnsearch.org/isbn/0321279352>
- Calculus with applications, Lial, Greenwell, Ritchey, 8th edition, ISBN:0-321-22814-6
<https://isbnsearch.org/isbn/0321228146>

Presentation

League for Innovation in The Community College:

- STEMtech 2014, Denver, Colorado: Integrating some aspects of sustainability into a pre-calculus course
- STEMtech 2012, Kansas City, Missouri: Discovering nonlinear dynamics flavor in pre-calculus courses
- Conference on Information Technology (CIT) 2003, Milwaukee, Wisconsin

Other mathematical activities

- Mathematics in the Art: <https://artemmathematica.art/>
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Membership

- AM Iowa City Rotary Club
 - AMS-American Mathematical Society
 - AGU-American Geophysical Union
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Education

- ABD - Post PhD-Comprehensive Exam – Physics - **University of Iowa** 1997
 - MS Physics – **University of Iowa** 1995
 - MS Mathematics – **Texas Tech University** 1989
 - BS Geophysics – **Texas Tech University** 1986
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References

- Available upon request