

**Subject:** RE: Statistics and Data Sci Concentration

**From:** Hari Kalva <[hkalva@fau.edu](mailto:hkalva@fau.edu)>

**Date:** 10/27/2023, 12:53 PM

**To:** Yuan Wang <[YWANG@fau.edu](mailto:YWANG@fau.edu)>

**CC:** Stephen Locke <[lockes@fau.edu](mailto:lockes@fau.edu)>

Hi Yuan, we do not have any objections to the proposed Statistics and Data Science Concentration.

-----Original Message-----

From: Yuan Wang <[YWANG@fau.edu](mailto:YWANG@fau.edu)>

Sent: Tuesday, October 10, 2023 9:14 AM

To: Hari Kalva <[hkalva@fau.edu](mailto:hkalva@fau.edu)>

Cc: Stephen Locke <[lockes@fau.edu](mailto:lockes@fau.edu)>

Subject: Statistics and Data Sci Concentration

Hello Hari,

We are revising our BS degree in Math, adding concentrations to the program. Here is the proposal for the Statistics and Data Science Concentration. Please let us know if there are questions or concerns.

Thank you very much.

Yuan

**Subject:** RE: B.S. in Mathematics (BS) – Cryptography Track (draft ver 1)  
**From:** Hari Kalva <hkalva@fau.edu>  
**Date:** 9/14/2023, 10:17 AM  
**To:** Shi Bai <sbai@fau.edu>  
**CC:** Hanqi Zhuang <zhuang@fau.edu>, Yuan Wang <YWANG@fau.edu>

Hi Shi, looks good. We will support your track proposal. In terms of electives, we don't regularly offer.

CIS 4213 Cyber Physical System Security (COP 3530)  
CAP 4623 Trustworthy Artificial Intelligence (COP 3014, MAD 2104)

-----Original Message-----

From: Shi Bai <sbai@fau.edu>  
Sent: Wednesday, September 13, 2023 2:14 PM  
To: Hari Kalva <hkalva@fau.edu>  
Cc: Hanqi Zhuang <zhuang@fau.edu>; Yuan Wang <YWANG@fau.edu>  
Subject: Re: B.S. in Mathematics (BS) – Cryptography Track (draft ver 1)

Dear Hari, Hanqi,

I hope everything is going well. Thanks for the suggestions/comments on the earlier draft of the cryptography track. We have updated the draft version with some slight changes.

We learned that there is a Python version of the COP2220/COP3014 sequence, but we decided to keep the C version as the student may find them useful in cryptography research/algorithms.

Just a quick summary of the current status, we have 3 "Required" CS courses:

COP 2220. Programming 1  
COP 3014. Programming 2  
COP 3530. Data Structures and Algorithm Analysis

And 3 "Elective" ones from CS (we gave a list of example courses in the 3rd page of the draft).

We are also planning to develop two new courses as electives for this track:

Cryptography of Blockchain  
Post-quantum Cryptography

We are planning to move on and bring this to the senate meetings as soon as we can.

Could you please let us know if you have any comments/suggestions and if EECS could support this effort. Thanks!

Cheers,  
Shi

From: Shi Bai <sbai@fau.edu>  
Sent: Friday, July 7, 2023 11:33 AM  
To: Hanqi Zhuang  
Cc: Yuan Wang; Hari Kalva  
Subject: Re: B.S. in Mathematics (BS) – Cryptography Track (draft ver 1)

Thanks Hanqi.

OK, we will then replace CAP 4612 by CAP 4770 in the "Elective" course.

Cheers,  
Shi

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From: Hanqi Zhuang <[zhuang@fau.edu](mailto:zhuang@fau.edu)>  
Sent: Friday, July 7, 2023 11:19 AM  
To: Shi Bai  
Cc: Yuan Wang; Hari Kalva  
Subject: Re: B.S. in Mathematics (BS) – Cryptography Track (draft ver 1)

Dear Shi,

This is a very good program. I think that EECS fully supports this effort. We offer Programming 1, 2 and Data Structures every term. We also offer COP 3540, COP 4045, COT 4420, CDA 4321, CAP 4613, CAP 4630 and COT 4400 regularly. We no longer offer CAP 4612. Instead, we offer regular Data Mining and Machine Learning CAP 4770, which students shall be fine with after taking programming 2 and/or data structures.

Hari may have better idea on other courses in the elective list.

Best,  
Hanqi

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From: Shi Bai <[sbai@fau.edu](mailto:sbai@fau.edu)>  
Sent: Friday, July 7, 2023 11:00 AM  
To: Hanqi Zhuang <[zhuang@fau.edu](mailto:zhuang@fau.edu)>  
Cc: Yuan Wang <[YWANG@fau.edu](mailto:YWANG@fau.edu)>  
Subject: B.S. in Mathematics (BS) – Cryptography Track (draft ver 1)

Dear Hanqi,

I hope everything is going well. This is Shi Bai from mathematics.

Our department is revising our BS program in Mathematics, to include several tracks/concentrations. The purpose is to make the program more diverse/accessible to the students to improve their graduation rate. One such track is in Cryptography.

Please find the very first draft of the proposal attached. This is just a prelim version, but we hope to communicate with CS at an earlier stage.

In particular, for the CS courses in this track, we have 3 "Required" courses:

COP 2220. Programming 1  
COP 3014. Programming 2  
COP 3530. Data Structures and Algorithm Analysis

And 3 "Elective" ones from CS. The overall credit for our BS program is 61 credits.

A few questions:

1) we are hoping the above 3 "Required" courses pave a common prerequisite, so the students can choose CS electives more flexibly.

2) we tried to include most course in crypto from CS on Page 3 (Track Electives). Please let us know if anything is missed.

Please also let us know if you have any other comments/suggestions. Thanks!

Cheers,  
Shi

Supporting letter from the Department of  
Biological Department

**Subject:** Re: Mathematical Biology concentration in BS Math

**From:** William Brooks <wbrooks@fau.edu>

**Date:** 10/13/2023, 8:35 AM

**To:** Sarah Milton <smilton@fau.edu>, Yuan Wang <YWANG@fau.edu>

**CC:** Stephen Locke <lockes@fau.edu>, Evonne Rezler <erezler@fau.edu>, William Brooks <wbrooks@fau.edu>

The Biology Undergraduate Programs Committee, along with Sarah, supports these courses!!

Please let us know if you need more formal verification.

## W. Randy Brooks, PhD

Professor of Biology

Chair, FAU Biology Undergraduate & MS Graduate Program Committees

Boca Raton, FL 33431, Phone: 561-297-3888, Email: [wbrooks@fau.edu](mailto:wbrooks@fau.edu)

<http://biology.fau.edu/directory/brooks/index.php>

<http://biology.fau.edu/academics/graduate/ms-programs.php>

Sent from my Z Fold 4

**From:** Sarah Milton

**Sent:** Friday, October 13, 2023 3:03 AM

**To:** Yuan Wang

**Cc:** William Brooks; Stephen Locke; Evonne Rezler

**Subject:** Re: Mathematical Biology concentration in BS Math

Biology supports these courses for our students. We will need to add them to our curriculum so that they meet our students PoS. Randy?

Sarah Milton

> On Oct 13, 2023, at 12:44 AM, Yuan Wang <YWANG@fau.edu> wrote:

>

> Dear Sarah,

>

> I hope you are doing well. We are now revising our BS program in Math by building in a few concentrations, and one of them is the Mathematical Biology concentration, where two new courses of Mathematics for Biological Sciences 1 and 2 are added to replace the traditional Calculus sequence. Our colleagues Necibe and Francis have had some fruitful discussions with you. Thank you very much for all your suggestions and feedback.

>

> We are now finalizing our proposal of program change. Please see the attached documents in this email. It would be very helpful if we could get a consent from your department. Please let me know if there are any questions or concerns. We'd be happy to address any issues from you.

>

> Many thanks!

> Yuan

> <BioMath-Concentration.pdf>

> <CourseProposal-Bio-Math-One.pdf>

> <CourseProposal-Bio-Math-Two.pdf>

Supporting Letter from Dept of  
Curriculum and Instruction, College of  
Education on replacing MAA4200 with  
MAS 3156

**Subject:** RE: MAA 4200

**From:** Robyn Klein <rklein@fau.edu>

**Date:** 9/14/2023, 10:09 AM

**To:** Joseph Furner <jfurner@fau.edu>, Stephen Locke <lockes@fau.edu>, Yuan Wang <YWANG@fau.edu>

Good Morning,

Thank you so much for keeping us in the loop. Since MAS 4200 is a required course for our Math Education majors, we can put in the program change to replace that course with MAS 3156.

Thanks again!

Robyn Klein, Ed.D.  
Senior Instructor  
Director of Undergraduate Programs  
Department of Curriculum and Instruction  
College of Education  
Florida Atlantic University  
(561)297-3877  
[rklein@fau.edu](mailto:rklein@fau.edu)



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**From:** Joseph Furner <jfurner@fau.edu>  
**Sent:** Wednesday, September 13, 2023 8:12 PM  
**To:** Stephen Locke <lockes@fau.edu>; Yuan Wang <YWANG@fau.edu>  
**Cc:** Robyn Klein <rklein@fau.edu>  
**Subject:** RE: MAA 4200

Thank you Stephen for writing and letting us know. I will forward this to Robyn Klein who is in charge of the Secondary Programs in our department so she can make the change and remove that class on the program sheet. Thanks for writing. I do hope all is well. Many blessings! Have a great semester and academic year!

Pax in terra, pax in caelo, pax vobiscum,

*Joseph M. Furner*

**Joseph M. Furner, Ph.D.**  
**Professor of Mathematics Education and Curriculum and Instruction**  
**Florida Atlantic University**  
**College of Education**  
**Department of Curriculum and Instruction**  
**John D. MacArthur Campus**  
**5353 Parkside Drive, EC 207D**  
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Telephone: Disconnected, Email: [jfurner@fau.edu](mailto:jfurner@fau.edu)

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E-mail: [jfurner@fau.edu](mailto:jfurner@fau.edu)

My Google Scholar Link: <https://scholar.google.com/citations?user=onRKBeEAAAAJ&hl=en&oi=ao>

*Mathitudes Online@*

[http://www.coe.fau.edu/centersand\\_programs/mathitudes](http://www.coe.fau.edu/centersand_programs/mathitudes)



*What office is there which involves more responsibility, which requires more qualifications, and which ought, therefore, to be more honorable than teaching?*

-Harriet Martineau, 1802-1876

*The important thing is not to stop questioning. Curiosity has its own reason for existing. One cannot help but be in awe when he contemplates the mysteries of eternity, of life, of the marvelous structure of reality. It is enough if one tries merely to comprehend a little of this mystery every day. Never lose a holy curiosity.*

-Albert Einstein, 1879-1955

*If you help others, you will be helped, perhaps tomorrow, perhaps in one hundred years, but you will be helped. Nature must pay off the debt... It is a mathematical law and all life is mathematics.*

-George Ivanovich Gurdjieff, 1866-1949

*Only a life lived for others is a life worthwhile.*

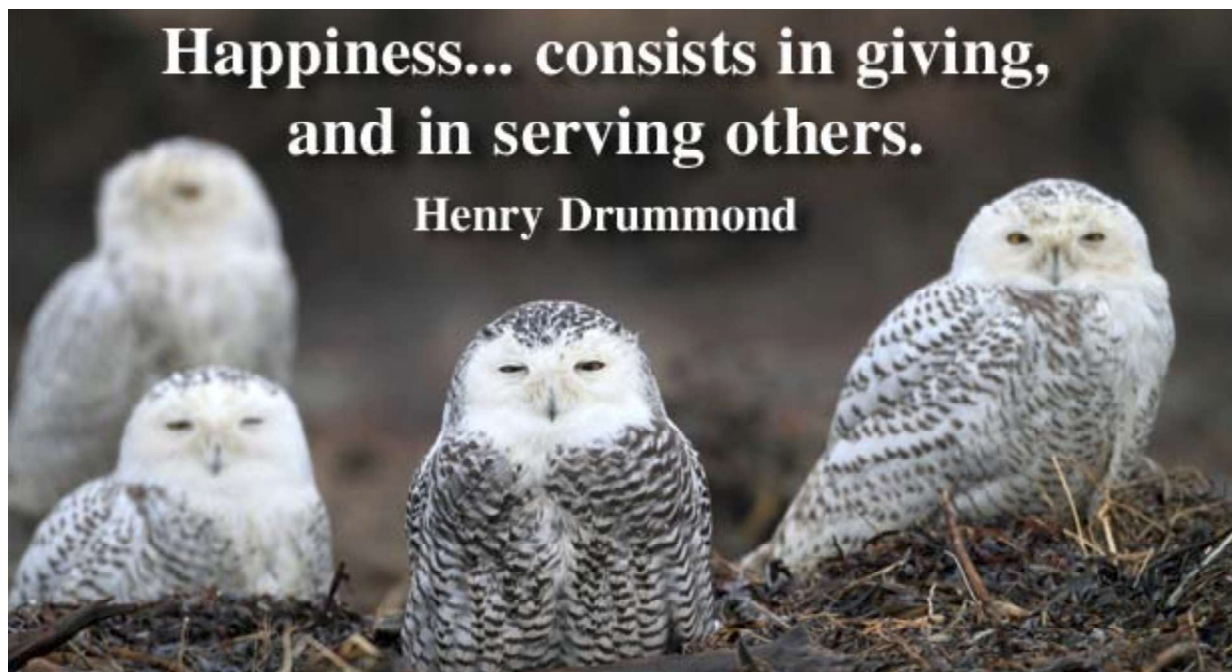
-Albert Einstein, 1879-1955

*No one has ever seen God. But if we love each other, God lives in us, and his love is brought to full expression in us.*

-1 John 4:12, NLT

*Healthy people have no need for power over other people; they don't enjoy it, they don't want it, and they will use it only when there is some factual need in the situation for it.* -Abraham Maslow 1908-1970





*You will find as you look back upon your life that the moments when you have truly lived are the moments when you have done things in the spirit of love.*

-Henry Drummond, 1851-1897

*A life spent making mistakes is not only more honorable but more useful than a life spent do-ing nothing.*

-George Bernard Shaw, 1856-1950

*It is not how much we do, but how much love we put in the action that we do.*

- Mother Teresa 1910-1997

*Life is not easy for any of us. But what of that? We must have perseverance and above all confidence in ourselves. We must believe that we are gifted for something, and that this thing, at whatever cost, must be attained.*

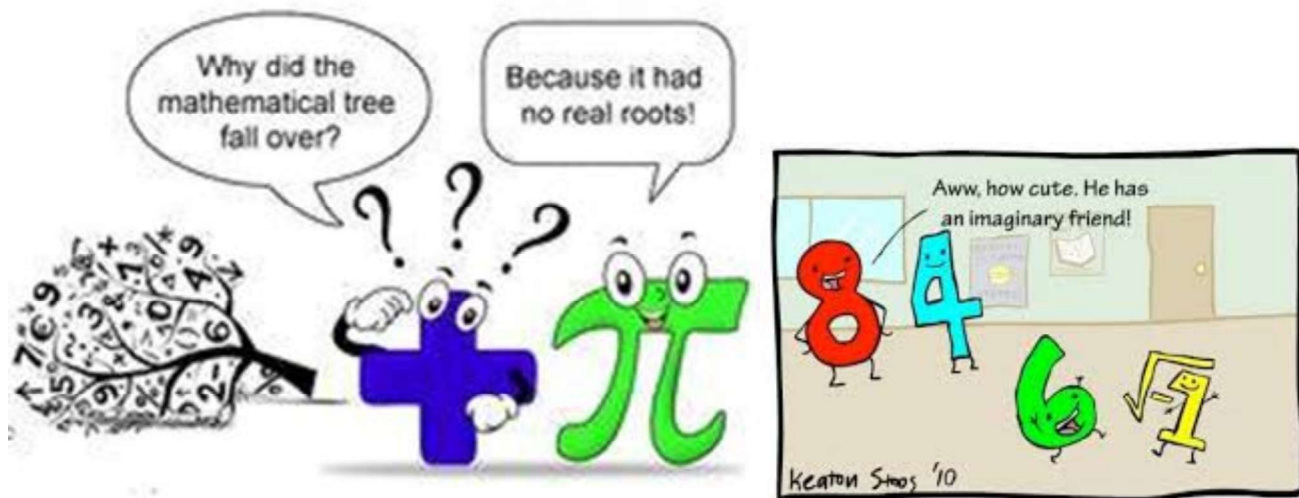
-Marie Curie 1867-1934

*To laugh often and much; To win the respect of intelligent people and the affection of children; To earn the appreciation of honest critics and endure the betrayal of false friends; To appreciate beauty, to find the best in others; To leave the world a bit better, whether by a healthy child, a garden patch, or a redeemed social condition; To know even one life has breathed easier because you have lived. This is to have succeeded.*

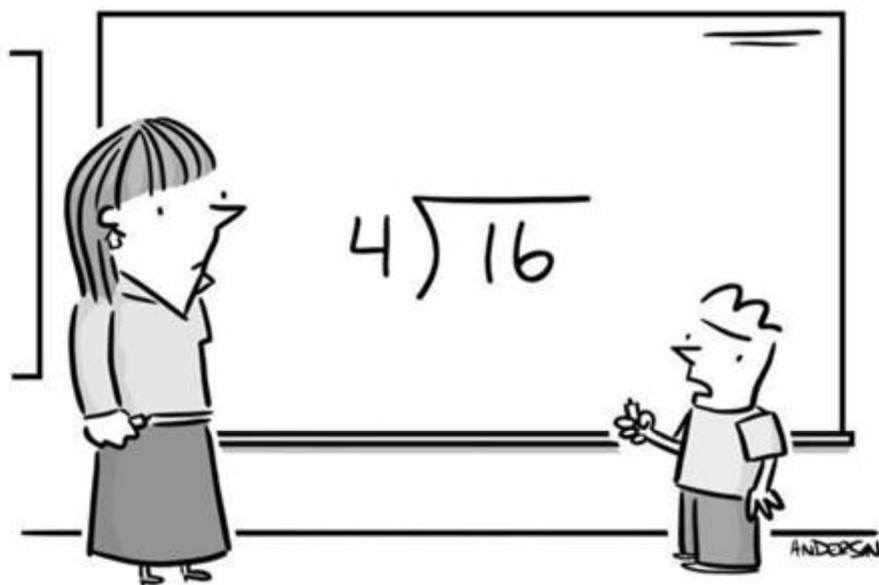
-Ralph Waldo Emerson 1803 – 1882

*“...I don't need my name in lights, I'm famous in my Father's eyes, Make no mistake, He knows my name, I'm not living for applause, I'm already so adored, It's all His stage, He knows my name...He calls me chosen, free forgiven, wanted, child of the King, His forever, held in treasure, I am loved...”*

- Francesca Battistelli



For more funny math jokes go to: [http://www.transum.org/Software/Fun\\_Maths/Jokes.asp](http://www.transum.org/Software/Fun_Maths/Jokes.asp)



"We've been dividing all week! When do we get to conquer?!"



"If two negatives make a positive  
how come two wrongs don't  
make a right?"




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**From:** Stephen Locke <[lockes@fau.edu](mailto:lockes@fau.edu)>  
**Sent:** Wednesday, September 13, 2023 4:25 PM  
**To:** Joseph Furner <[jfurner@fau.edu](mailto:jfurner@fau.edu)>; Yuan Wang <[YWANG@fau.edu](mailto:YWANG@fau.edu)>  
**Subject:** MAA 4200

Joe,

We are in the process of renovating our baccalaureate program, and one side effect will be the phasing out of MAA 4200, Modern Analysis. Our students will probably take MAS 3156, Vector Calculus, for most of our concentrations. This course will not have as many proofs as MAA 4200, and is already in place. We ran both MAA 4200 and MAS 3156 in Spring 2023.

I know that students following the BA in Math Education probably take MAA 4200, and thus phasing out MAA 4200 affects your department. We hope this is not too much of a problem. The prerequisites for Vector Calculus are MAC 2313 Calculus 3 with Analytic Geometry and MAS 2103 Matrix Theory, which I assume

your students will already have. So the transition should be easy.

Stephen