Program Change Request

Date Submitted: 10/12/17 4:40 pm

Viewing: BS-FSTC-FSO+: Food Science and Technology - BS, Food Science Option

Food Science Option

Last edit: 10/13/17 1:47 pm

Changes proposed by: poppycapehart

Catalog Pages Using this Program

Food Science and Technology - BS, Food Science Option

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poppy Capehart</td>
<td><a href="mailto:poppy@tamu.edu">poppy@tamu.edu</a></td>
<td>979-845-2142</td>
</tr>
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</table>

Academic level: Undergraduate
Effective Term: 2018-2019
Department: Nutrition & Food Science
College: Agriculture & Life Sciences
Program type: Degree w/Concentration
Degree designation: BS - Bachelor of Science
With a major in: Food Science & Technology (FSTC)
With a concentration in: Food Science (FSO+)

Catalog Program Title

Food Science and Technology - BS, Food Science Option

CIP and Fund code: 30190100

Rationale for Proposal

The NUTR and FSTC course prefixes are proposed to change to NFSC (Approved by the UCC in August 4, 2017 UCC meeting); goal is to reduce number of cross-listed courses within the department as well as make for easier identification; core math requirements will become Any TAMU Core Math; Statistics requirement will add STAT 301, 303 to 302 to give more options; total hours for degree completion will not be changed by these modifications.

Program hours: 120

Is this program eligible for financial aid? Yes

Will program hours change (increase/decrease) due to the proposed curriculum changes? No

Program delivery mode: On-campus

Catalog Program Requirements

Plan of Study Grid

First Year

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>CHEM 103</td>
</tr>
<tr>
<td>CHEM 111</td>
</tr>
<tr>
<td>ENGL 103 or ENGL 104</td>
</tr>
<tr>
<td>FSTC 203</td>
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</table>

Approval Path

1. 10/13/17 8:01 am
   Stephen Talcott (stalcott): Approved for NFSC Department Head

2. 10/13/17 5:05 pm
   Sandra Williams (sandra.williams): Approved for Curricular Services Review

3. 10/16/17 8:45 am
   Dawn Kerstetter (dkerstetter): Approved for AG Committee Prepener UG

4. 10/20/17 10:11 am
   Bob Knight (bob.knight): Approved for AG Committee Chair UG

5. 10/20/17 11:16 am
   Kim Dooley (k-dooley): Approved for AG College Dean UG

6. 10/24/17 4:44 pm
   Sandra Williams (sandra.williams): Approved for UCC Chair
FSTC 210/NUTR 210  Horizons in Nutrition and Food Science  2
Mathematics (MATH prefix required)  3
Semester Credit Hours  15

BIOL 111  Introductory Biology I  4
CHEM 102  Fundamentals of Chemistry II  3
CHEM 112  Fundamentals of Chemistry Laboratory II  1
American History  1  3
Free elective 2  1
Mathematics (MATH prefix required)  3
Semester Credit Hours  15

Second Year

CHEM 227  Organic Chemistry I  3
CHEM 237  Organic Chemistry Laboratory  1
NUTR 202  Fundamentals of Human Nutrition  3
POLS 206  American National Government  3
Select one of the following:  3
AGEC 105  Introduction to Agricultural Economics  3
ECON 202  Principles of Economics  3
ECON 203  Principles of Economics  3
Language, philosophy and culture 1  3
Semester Credit Hours  16

Spring

ACCT 209  Survey of Accounting Principles  3
CHEM 228  Organic Chemistry II  3
CHEM 238  Organic Chemistry Laboratory  1
PHYS 201  College Physics  4
American History  1  3
Creative arts 1  3
Semester Credit Hours  17

Third Year

CHEM 316  Quantitative Analysis  2
CHEM 318  Quantitative Analysis Laboratory  1
ENGL 210  Technical and Business Writing  3
Horticulture and Food Science - BS, Horticulture and Food Science Option  3
FSTC 311/NUTR 311  Principles of Food Processing  3
POLS 207  State and Local Government  3
Free elective 2  3
Semester Credit Hours  15

Spring

FSTC 312/DASC 312  Food Chemistry  3
FSTC 313/DASC 313  Food Chemistry Laboratory  1
Mgmt 309  Survey of Management  3
Select one of the following:  3
STAT 301  Introduction to Biometry  3
STAT 302  Statistical Methods  1
STAT 303  Statistical Methods  3
Select one of the following:  3
ANSC 307/FSTC 307  Meats  3
ANSC 457/FSTC 457  Hazard Analysis and Critical Control Point System  3
FSTC 305  Fundamental Baking  3
FSTC 307/FSTC 307  Meats  3
FSTC 416/FSTC 416  Food Process Engineering Technology  3
FSTC 406/DASC 406  Poultry Further Processing  3
FSTC 410/NUTR 410  Nutritional Pharmacometrics of Food Compounds  3
FSTC 440/FSTC 440  Therapeutic Microbiology: Probiotics and Related Strategies  3
FSTC 446/FSTC 446  Commercial Fruit and Vegetable Processing  3
FSTC 420/NUTR 420  Supervised Research in Mediterranean Nutrition and Food Processing in Italy  3
FSTC 422/NUTR 422  Food Processing for Sustainable Nutrition in Brazil  3
FSTC 457/NSTC 457  Hazard Analysis and Critical Control Point System  3
Anchorage (AK) - BS, Food Science and Technology Option  3
FSTC 471/NUTR 471  Critical Evaluation of Nutrition and Food Science Literature: Evidence Based Research  3
FSTC 485  Directed Studies  3
FSTC 489  Special Topics in...  3
FSTC 491  Research  3
HORT 419  Viticulture and Small Fruit Culture  3
HORT 420  Concepts of Wine Production  3
HORT 421  Enology  3
HORT 446/FSTC 446  Commercial Fruit and Vegetable Processing  3
MFS 324  Food Safety and Preventive Controls for Human Food  3
NUTR 211  Scientific Principles of Foods  3
FSTC 406/FSTC 406  Poultry Further Processing  3
Additional information

Required Proposal
Core Math Permission 05-31-17.pdf
STAT Permission 06-22-17.pdf
BS-FSTC-FSO - 10-13-2017.pdf

Reviewer Comments
Jon Jasperson (jon.jasperson) (08/23/17 12:21 pm): The "Rationale for Proposal" section states "All NUTR and FSTC courses will be renamed NFSC; goal is to reduce number of cross-listed courses within the department as well as make for easier identification..." Renaming course prefixes and changing cross-listing status constitute course change requests. Rather than a side note to the program change request, I believe the department should provide a memo requesting a course prefix change. The memo should A) outline the rationale for changing the course prefix; B) provide a course-by-course listing of which course prefixes will change and which course numbers will change; and C) indicate which cross-listings will change. This memo request could be considered as a special agenda item by the UCC. Eventually, each individual course will require a course change request in CARS.
<table>
<thead>
<tr>
<th>Program Reviewer</th>
<th>Comments</th>
</tr>
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<tbody>
<tr>
<td>Jon Jasperson</td>
<td>The &quot;Rationale for Proposal&quot; section states &quot;All NUTR and FSTC courses will be renamed NFSC; goal is to reduce number of cross-listed courses within the department as well as make for easier identification...&quot; Renaming course prefixes and changing cross-listing status constitute course change requests. Rather than a side note to the program change request, I believe the department should provide a memo requesting a course prefix change. The memo should A) outline the rationale for changing the course prefix; B) provide a course-by-course listing of which course prefixes will change and which course numbers will change; and C) indicate which cross-listings will change. This memo request could be considered as a special agenda item by the UCC. Eventually, each individual course will require a course change request in CARS.</td>
</tr>
<tr>
<td>Sandra Williams</td>
<td>Updates made to Rationale. Concerns addressed.</td>
</tr>
<tr>
<td>Sandra Williams</td>
<td>UCC approved at September 2017 meeting.</td>
</tr>
<tr>
<td>Kelly Drake</td>
<td>Rollback: Please discuss with the Math Department their concerns with the core Math components. They do not believe any core math is acceptable for BS degrees, but would rather see the requirement be any core math course with MATH as a prefix</td>
</tr>
<tr>
<td>Sandra Williams</td>
<td>Updates made to mathematics core requirements.</td>
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</table>
Detail Requirements

Information for Degree Evaluation

This is NOT an official evaluation.

Print Instructions

Program Evaluation

Limitation Correspondence: No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
Limitation Combination: Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.

Program : BS FSTC-Food Science
Catalog Term : Fall 2017 - College Station
Campus : College Station
College : Agriculture & Life Sciences
Degree : Bachelor of Science
Level : Undergraduate
Majors : Food Science & Technology
Departments : Nutrition & Food Science

Limitation

<table>
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<tr>
<th>Requirement</th>
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<th>Grade</th>
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This is NOT an official evaluation.

Area : Major Coursework (35,000 credits) - Not Met

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<th>Required Courses</th>
<th>Term Subject</th>
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<tr>
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<td>No AND</td>
<td>B. FSTC 210</td>
<td>2hrs</td>
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<tr>
<td>No AND</td>
<td>C. Product Development</td>
<td>3hrs</td>
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</table>
| No AND | D. Food Engineering | 3hrs | | | | | | | | | | FSTC 401
| No AND | E. Food Processing | 3hrs | | | | | | | | | | Select from AGSM 315; FSTC 315.
| No AND | F. Food Chemistry Lab | 1hr | | | | | | | | | | Take FSTC 313.
| No AND | G. Food Chemistry | 3hrs | | | | | | | | | | Take FSTC 312.
| No AND | H. Food Analysis | 3hrs | | | | | | | | | | Take FSTC 314.
| No AND | I. Food Bacteriology | 3hrs | | | | | | | | | | Select from DASC 326; FSTC 326.
| No AND | J. Food Bacteriology Lab | 1hr | | | | | | | | | | Select from DASC 327; FSTC 327.
| No AND | K. FSTC 444 | 3hrs | | | | | | | | | | |
| No AND | L. FSTC 481 | 1hr | | | | | | | | | | |
| No AND | M. Food Science Elect | 6hrs | | | | | | | | | | Select from ANSC 307, 457; FSTC 300, 305, 307, 406, 410, 446, 449, 457, 458, 462, 485, 489, 491; HORT 419-420, 446, NUTR 211; POSC 406.

Request rearranging the order as presented at left to:
A. FSTC 201
B. FSTC 210
C. FSTC 311; HORT 311
D. FSTC 312
E. FSTC 313
F. FSTC 314
G. FSTC 315; AGMS 315
H. FSTC 326; DASC 326
I. FSTC 327; DASC 327
K. FSTC 444
L. FSTC 481
M. Food Science Elects - 6 hrs

Remove FSTC 440; 446; 469; 471; HORT 446

Add NUTR 320; NFSC 324; FSTC 420, 422:

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https://compass-ssb.tamu.edu/pls/PROD/bwckcapp.P_VerifyDispEvalViewOption
### Area: Supporting Coursework (6.000 credits) - Not Met

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<td>Management</td>
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<td>Take MGMT 309.</td>
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Total Credits and GPA: 0.000 .00

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### Area: Communication (6.000 credits) - Not Met

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<td>ENGL 103, 104</td>
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<td>Change from current form to Rule B. ENGL 210</td>
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unofficial evaluation

### Area: Mathematics (9.000 credits) - Not Met

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<td>Replace with Any TAMU Core Math (MATH prefix required)</td>
<td>Select from MATH 142, 151.</td>
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<td>No</td>
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<td>STAT 302</td>
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Total Credits and GPA: 0.000 .00

unofficial evaluation

### Area: Life and Physical Sciences (33.000 credits) - Not Met

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<td>Take CHEM 102, 112.</td>
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Total Credits and GPA: 0.000 .00

unofficial evaluation
### Area: Language, Philosophy & Culture (3.000 credits) - Not Met

<table>
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<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
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<th>Credits Required</th>
<th>Courses</th>
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<th>Attribute</th>
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<td>Select any course with the Language, Philosophy and Culture attribute [KLPC].</td>
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**Total Credits and GPA**: 0.000 .00

Unofficial evaluation

### Area: Creative Arts (3.000 credits) - Not Met

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<tr>
<td>No</td>
<td>A. Creative Arts Requirement 3hrs</td>
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<td>Select three hours from any course with the Creative Arts attribute [KCRA].</td>
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**Total Credits and GPA**: 0.000 .00

Unofficial evaluation

### Area: Social and Behavioral Science (3.000 credits) - Not Met

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<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Credits Required</th>
<th>Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Economics Rqmt 3hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select 3 hours from AGEC 105, ECON 202, 203.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.000 .00

Unofficial evaluation

### Area: Citizenship (12.000 credits) - Not Met

**Description**: Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

<table>
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<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. American History Rqmt 6hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select from any course with the [KHIS] attribute.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>AND B. Political Science Rqmt 6hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Take POLS 206 and POLS 207.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.000 .00

Unofficial evaluation

### Area: General Electives (10.000 credits) - Not Met

<table>
<thead>
<tr>
<th>Met</th>
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<th>Courses</th>
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<th>Attribute</th>
<th>Credits Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. General Electives 10hrs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Select from any 100-499 course not used elsewhere.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.000 .00

Unofficial evaluation

### Area: Work Not Applied - Met

**Description**: See advisor for acceptable substitutions.

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule</th>
<th>Subject Attribute</th>
<th>Low</th>
<th>High</th>
<th>Required Credits</th>
<th>Credits Required</th>
<th>Courses</th>
<th>Term Subject Course Title</th>
<th>Attribute</th>
<th>Credits Grade</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Courses not applied</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.000 .00

Unofficial evaluation
### University Writing Requirement - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low</th>
<th>High</th>
<th>Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Writing Requirement</td>
<td></td>
<td></td>
<td></td>
<td>Two courses required. Only sections of FSTC 313, 406, 469, 481 with the Oral Communication attribute [UCRT], or 491 with the Writing attribute [UWRT] may be used to satisfy this requirement.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.00 0.00

**unofficial evaluation**

### Int'l & Cult Diversity - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low</th>
<th>High</th>
<th>Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Int'l &amp; Cultural Diversity 6hr</td>
<td></td>
<td></td>
<td></td>
<td>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.00 0.00

**unofficial evaluation**

### Foreign Language - Not Met

<table>
<thead>
<tr>
<th>Met</th>
<th>Condition Rule Subject Attribute Low</th>
<th>High</th>
<th>Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
</table>
| No  | A. Foreign Language Rqmt            |      |          |                 | Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit. |

**Total Credits and GPA**: 0.00 0.00

**unofficial evaluation**

### Residence Requirement - Not Met

<table>
<thead>
<tr>
<th>Met</th>
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<th>High</th>
<th>Required</th>
<th>Required Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Residence - Major 12hrs</td>
<td></td>
<td></td>
<td>Select from FSTC 300-499; NUTR 302.</td>
</tr>
<tr>
<td>No</td>
<td>AND B. Residence 300-499 24hrs</td>
<td></td>
<td></td>
<td>Select from any 300-400 level course at Texas A&amp;M.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.00 0.00

**unofficial evaluation**

### GPR-Major - Not Met

<table>
<thead>
<tr>
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<th>Required</th>
<th>Required Courses</th>
<th>Term Subject Course Title Attribute Credits Grade Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>A. Major GPR 29+hrs</td>
<td></td>
<td></td>
<td></td>
<td>Includes FSTC 100-499; AGSM 213, 315; ANSC 307, 407, 467; BICH 302; DASC 306, 312, 313, 314, 326, 327, 330, 331, 410; HORT 311, 446; PSSC 406.</td>
</tr>
</tbody>
</table>

**Total Credits and GPA**: 0.00 0.00

**unofficial evaluation**
Hello Poppy

The Department of Statistics will allow NFSC undergraduate students to take any of STAT 301, 302, or 303 to satisfy their statistics requirement. We would recommend that they take STAT 302 since this course is designed for students in biological sciences. The statistical content of STAT 301 and 303 is equivalent, but other areas of application of statistics are emphasized (animal science and social science, respectively).

Best regards,

Tom

Thomas Wehrly
Professor
Department of Statistics
Texas A&M University

From: Capehart, Poppy  
Sent: Thursday, June 22, 2017 9:10 AM  
To: Wehrly, Thomas E <twehrly@stat.tamu.edu>  
Cc: Statistics Undergraduate Program <undergraduate@stat.tamu.edu>; Michael Longnecker <longneck@stat.tamu.edu>  
Subject: RE: STAT 302 - Degree Requirement

Good morning, Dr. Wehrly.

Thank you and all in Dept of Stat again for every consideration shown to NUTR and FSTC undergrads taking STAT.

I apologize for what I hope won’t seem like I’m trying to bug you about this.

To ensure I am allowed to modify my degree plans to reflect that STAT 301, 302, or 303 will satisfy the requirement and not have UCC or Fac Sen confuse my request for requesting to substitute 01, 03 for 02, when your time permits, please e-mail me that Dept of Stat will allow NFSC undergrads to take STAT 301, 302 or 303. Those approving can be a persnickety bunch when it comes to specificity and, statistically speaking, my chances are best when that is clear.

Again, please excuse my further need for indulgence on this.
Poppy,

I forwarded this to Dr. Hester and she said if you want to state, "any core math" in your degree plans, that is fine with us. Do you need anything more official?

Thanks,

Donna Hoffman
Math program office
(979) 862-4306

On 05/31/2017 02:57 PM, Capehart, Poppy wrote:
> How do, Ms. H?
> 
> Trust me, I know already about New Student Conferences combined with the end of a semester so no gripes here.
> 
> I did want to reinitiate my request to change our degree plans for NUTR and FSTC to Any Core Math with exceptions. Because of the shift with MATH 141 to 140 it would be easier for us to simply put any core math. Because I receive BIOLOGY and ENGINEERING majors in change of major every term as well as inherit transfer students who have completed 1324, 1325 elsewhere, I just want to list Any Core Math.
> 
> If you don't mind asking again for me, I'm sorry to be back on your agenda.
> 
> Thanks for your time and I hope all is well with MATH DEPT.
> 
> Best,
> 
> Poppy
> 
> Dr. Poppy Capehart '75 | Academic Program Coordinator - Academic Advisor IV Department of Nutrition and Food Science | Texas A&M University
> 127 Cater-Mattil Building | 2253 TAMU
> College Station, Texas 77843
> 
> ph: 979.845.2142 | fax: 979.862-6842 | poppy@tamu.edu
> http://nfs.tamu.edu
> http://aggiemap.tamu.edu/?Bldg=1503
> http://nfs.tamu.edu/people/capehart-poppy/