The completed and signed proposal should be submitted by the Dean’s Office to: curriculumplanning@asu.edu. Before academic units can advertise undergraduate minors or include them in their offerings as described in the university catalogs, they must be recommended for approval by the Senate Curriculum and Academic Programs Committee and approved by the Office of the University Provost.

Definition and minimum requirements:

These are the minimum requirements for approval. Individual undergraduate minors may have additional requirements.

A minor is an approved, coherent focus of academic study in a single discipline, other than the student’s major, involving substantially fewer hours of credit than a corresponding major. Certain major and minor combinations may be deemed inappropriate by either the college or department of the major or minor. Inappropriate combinations include (but would not be limited to) ones in which an excessive number of courses in the minor are simultaneously being used to fulfill requirements of the student’s major.

A minor:

• Requires a minimum of 15 credit hours of which at least nine credit hours must be upper division
• Is not intended for students pursuing a major in the department which offers the minor

College/School/Institute: New College of Interdisciplinary Arts and Sciences
Department/Division/School: School of Mathematical and Natural Sciences
Proposing Faculty Group (if applicable):
Proposed Minor Name: Pharmacology and Toxicology
Requested effective date: 2020-21

Delivery method and campus or location options: select all locations that apply

- Downtown Phoenix
- Polytechnic
- Tempe
- Thunderbird
- West
- Other: ________________
- Both on-campus and ASU Online* - (check applicable campus(es) from options listed above)
- ASU Online only (all courses online and managed by ASU Online)

Note: Once students elect a campus or online option, students will not be able to move between the on-campus and the ASU Online options. Approval from the Office of the University Provost and Philip Regier (Executive Vice Provost and Dean) is required to offer programs through ASU Online. Please contact Ed Plus then complete the ASU Online Offering form in Curriculum ChangeMaker to begin this request.

Proposal Contact

Name: Karen Watanabe
Title: Associate Professor
Phone number: 602.543.5811
Email: karen.watanabe@asu.edu

DEAN APPROVAL(S)

This proposal has been approved by all necessary unit and College/School levels of review. I recommend implementation of the proposed organizational change.

College/School/Division Dean name: Todd Sandrin, Vice Provost/Dean, New College of Interdisciplinary Arts and Sciences

Signature: __________________________ Date: 3/21/2019

Note: An electronic signature, an email from the dean or dean’s designee, or a PDF of the signed signature page is acceptable.
1. Overview
   A. Description
      Provide a brief description of the proposed minor.

      The proposed minor includes basic biology and chemistry courses required as pre-requisites for upper-level pharmacology and toxicology courses taught in the School of Mathematical and Natural Sciences.

   B. Why should this be a minor rather than a concentration?
      We have a pharmacology/toxicology concentration for our bachelor’s degree in biology that requires 29 credit hours. A minor would allow a student in a major with less topical overlap, e.g., medical studies, biochemistry, quantitative sciences (e.g., applied math), or business (health care), to become familiar with basic concepts in pharmacology and toxicology that would enhance career paths in environmental risk assessment, public health, or the pharmaceutical industry.

   C. Affiliation
      If the minor is affiliated with a degree program, include a brief statement of how it will complement the program. If it is not affiliated with a degree program, incorporate a statement as to how it will provide an opportunity for a student to gain knowledge or skills not already available at ASU.

      The minor will complement the existing BS Pharmacology and Toxicology (PTX) by introducing new student perspectives (e.g., quantitative, economic, corporate) into existing courses. These new perspectives may also stimulate the development of additional elective course for these majors.

   D. Demand
      Explain the need for the new minor (e.g., market, student demand, interdisciplinary considerations).

      There is a need in the workforce for students with interdisciplinary education and training. This will provide students in business, life and quantitative sciences an opportunity to better prepare for a career that requires knowledge of how chemicals (drugs and environmental toxicants) affect people and wildlife.

   E. Projected enrollment
      What are enrollment projections for the first three years?

<table>
<thead>
<tr>
<th></th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students (Headcount)</td>
<td>5</td>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>

2. Support and Impact
   A. Faculty governance
      Attach a supporting letter from the chair of the academic unit verifying that the proposed minor has received faculty approval through appropriate governance procedures in the unit and that the unit has the resources to support the minor as presented in the proposal, without impacting core program resources.

      See letter from Dr. Stephen Wirkus, Professor and Interim Director of the School of Mathematical and Natural Sciences.

   B. Other related programs
      Identify other related ASU programs and outline how the new minor will complement these existing ASU programs. (If applicable, statements of support from potentially affected academic unit administrators need to be included with this proposal submission.)

      The BS and Minor in Pharmacology and Toxicology are unique to ASU, however these programs draw on traditional natural sciences such as chemistry, biology, and biochemistry, with programs and courses that are offered by other science programs across the University. For this reason, we have requested and obtained favorable impact statements from The College of Liberal Arts and Sciences, The Edson College of Nursing and Health Innovation, the College of Health Solutions, and the College of Integrative Science and Arts.
C. Letter(s) of support

Provide a supporting letter from each college/school dean from which individual courses are taken.

### 3. Academic Curriculum and Requirements

A. Knowledge, competencies, and skills

List the knowledge, competencies, and skills (learning outcomes) students should have when they complete this proposed minor. Examples of program learning outcomes can be found at [http://www.asu.edu/oue/assessment.html](http://www.asu.edu/oue/assessment.html).

Graduates with a pharmacology and toxicology minor will be able to explain fundamental concepts in pharmacology and toxicology such as pharmacokinetics, pharmacodynamics, dose-response analysis, and chemical metabolism.

B. Program Map

Attach a copy of the “proposed” map for this minor program. Instructions on how to create a “proposed minor map” in BAMM can be found in the [Build a Major Map Training Guide](#).

C. Curricular structure

Provide a description of the curricular requirements for the minor. Be specific in listing required courses as well as electives and specify the total minimum number of hours required for the minor.

<table>
<thead>
<tr>
<th>Required Minor Courses</th>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
<th>Is this a new course?</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH</td>
<td>371</td>
<td>Modern Concepts in Biochemistry</td>
<td>No</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIO</td>
<td>182</td>
<td>General Biology II (SG)</td>
<td>No</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHM</td>
<td>116</td>
<td>General Chemistry II (SQ)</td>
<td>No</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PTX</td>
<td>301</td>
<td>Basics of Pharmacology and Toxicology</td>
<td>No</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Section sub-total: 14

<table>
<thead>
<tr>
<th>Elective Minor Courses</th>
<th>Prefix</th>
<th>Number</th>
<th>Title</th>
<th>Is this a new course?</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTX/FOR</td>
<td>401</td>
<td>Forensic Toxicology</td>
<td>No</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PTX/LSC</td>
<td>432</td>
<td>Fundamentals of Pharmacology</td>
<td>No</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PTX/FOR/LSC</td>
<td>475</td>
<td>Principles of Toxicology</td>
<td>No</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PTX</td>
<td>499</td>
<td>Individualized Instruction</td>
<td>(Select one)</td>
<td>1-3</td>
<td></td>
</tr>
</tbody>
</table>

Section sub-total: 6

**Other Minor Requirements**

E.g. – Capstone experience, internship, clinical requirements, field studies, foreign language skills as applicable

| Credit Hours |

Section sub-total:

Total minimum credit hours required for the minor 20
D. Minimum residency requirement
   How many hours of the minor must be ASU credit?
   9

E. New courses
   Provide a brief course description for each new course.
   No new courses needed
   
   Note: All new required courses should be submitted in Curriculum Changemaker and ready for Provost’s Office approval before this minor is put on Curriculum and Academic Programs Committee (CAPC) agenda.

4. Administration and Resources

A. Enrollment criteria
   Describe the procedures and any qualifications for enrollment in the minor.
   
   Standard ASU procedures will be used for enrolling in the minor. The following courses do not count toward the minor but may be needed in order to complete the requirements of the minor:
   
   BIO 181 General Biology I (4) (SQ)
   BIO 353 Cell Biology (3)
   CHM 113 General Chemistry I (4) (SQ)
   CHM 233 General Organic Chemistry I (3) AND CHM 237 General Organic Chemistry I Lab (1)
   CHM 234 General Organic Chemistry II (3) AND CHM 238 General Organic Chemistry II Lab (1)
   LSC 347 Fundamentals of Genetics (3)

B. Administration
   How will the proposed minor be administered (including enrollment, student advisement, retention, minor completion verification, etc.)?
   
   Student advising will administer the minor.

C. Resources
   What are the resource implications for the proposed minor, including any projected budget needs? Will new books, library holdings, equipment, laboratory space and/or personnel be required now or in the future? If multiple units/programs will collaborate in offering this minor, please discuss the resource contribution of each participating program. Letters of support must be included from all academic units that will commit resources to this minor.
   
   No additional resources are needed at this time
5. Additional Materials

A. Appendix
   Complete and attach the Appendix document.

B. Program of study
   Provide one or more model programs of study (if appropriate).

C. Attach other information that will be useful to the review committees and the Office of the Provost.

PROVOST OFFICE APPROVAL(S)
This proposal has been approved by all necessary Provost office levels of review. I recommend implementation of the proposed organizational change.

Office of the University Provost

Signature ___________________________ Date:__/20

Note: An electronic signature, email, or a PDF of the signed signature page is acceptable.
1. **Proposed Minor Name:** Pharmacology and Toxicology

2. **Marketing Description**
   
   Optional. 50 words maximum. The marketing description should not repeat content found in the program description.

3. **Program Description (150 words maximum)**

   A minor in pharmacology and toxicology provides students with biology and chemistry courses to help prepare students for upper-division courses focused on how chemicals (drugs and environmental toxicants) affect living organisms. Students will be able to identify chemical characteristics leading to beneficial and adverse effects, describe how chemicals are evaluated for regulatory purposes, and summarize holistically how drugs and toxicants elicit their effects.

   Relevant career paths include the pharmaceutical industry, regulatory fields such as environmental risk assessment, and graduate programs in public health, pharmacology, toxicology or environmental health sciences.

4. **Contact and Support Information**
   
   Building code and room number: (Search ASU map) FAB N100
   
   Program office telephone number: (i.e. 480/965-2100) 602/543-3000
   
   Program Email Address: mnsadvising@asu.edu
   
   Program Website Address: https://newcollege.asu.edu/pharmacology-and-toxicology-minor

5. **Program Requirements**

   Remember to attach a copy of the “proposed” map for this minor program. Instructions on how to create a “proposed minor map” in BAMM can be found in the Build a Major Map Training Guide.

6. **Enrollment Requirements**

   If applicable, list any special enrollment requirements applicable to this minor in addition to the standard text. Enrollment requirements for all minors include the following text.

   **GPA Requirement:** 2.00

   **Majors Ineligible to Add This Minor:** BS in pharmacology and toxicology, BS in biology (pharmacology/toxicology)

   **Other Enrollment Requirements:** The following prerequisite courses do not count toward the minor, but may be needed in order to complete the requirements of the minor:

   BIO 181 General Biology I
   
   BIO 353 Cell Biology
   
   CHM 113 General Chemistry I
   
   CHM 233 General Organic Chemistry I AND CHM 237 General Organic Chemistry Laboratory I
   
   CHM 234 General Organic Chemistry II AND CHM 238 General Organic Chemistry Laboratory II
   
   LSC 347 Fundamentals of Genetics

   Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Students interested in pursuing a minor should consult their academic advisor to declare the minor and to ensure that an appropriate set of courses is taken. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and minor. Students should contact their academic advisor for more information.
7. **Delivery/Campus Information Options:**

   On-campus only (ground courses and/or iCourses)

   Note: Once students elect a campus or online option, students will not be able to move between the on-campus and the ASU Online options. Approval from the Office of the University Provost and Philip Regier (Executive Vice Provost and Dean) is required to offer programs through ASU Online. Please contact Ed Plus then complete the ASU Online Offering form in Curriculum ChangeMaker to begin this request.

8. **Campus/Locations** indicate all locations where this program will be offered.

   - [ ] Downtown Phoenix
   - [ ] Polytechnic
   - [ ] Tempe
   - [ ] Thunderbird
   - [x] West
   - [ ] Other:

9. **Keywords**

   List all keywords used to search for this program (limit 7). Keywords should be specific to the proposed program. Pharmacology, Toxicology, Pre-medicine, Pre-pharmacy, Pre-Health, Veterinary Medicine, Environmental Health
Program Requirements

The minor in pharmacology and toxicology consists of 20 credit hours. A minimum of 12 credit hours must be upper-division. A minimum of nine credit hours must be taken through the School of Mathematical and Natural Sciences. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

Required -- 14 credit hours

BCH 371: Modern Concepts in Biochemistry (3)
BIO 182: General Biology II (SG) (4)
CHM 116: General Chemistry II (SQ) (4)
PTX 301: Basics of Pharmacology and Toxicology (3)

Electives -- 6 credit hours

PTX 401 / FOR 401: Forensic Toxicology (3)
PTX 432 / LSC 432: Fundamentals of Pharmacology (3)
PTX 475 / FOR 475 / LSC 475: Principles of Toxicology (3)
PTX 499: Individualized Instruction (3)

Depending on a student’s undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.
I approve.

Thanks, Stacey!

Todd

Good afternoon Todd,

Attached is the proposal to establish the minor in pharmacology and toxicology. It has been reviewed by Patty and the Undergraduate Curriculum Committee. Would it be possible to have your approval for the proposal, and if so, your approval to have Mary affix your electronic signature?

Thanks,
Stacey

Stacey Kimbell
Curriculum Coordinator and Executive Admin Support Specialist
Academic Administration and Curriculum Planning
ASU New College of Interdisciplinary Arts and Sciences
Voice: (602) 543-6150  Fax: (602) 543-4565

Confidentiality Notice: This e-mail message, including attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.
March 12, 2019

To: Todd Sandrin, Dean  
New College of Interdisciplinary Arts and Sciences

From: Stephen Wirkus, Interim Director  
School of Mathematical and Natural Sciences

Subject: Proposal to Establish the Minor in Pharmacology and Toxicology

Attached please find the Proposal to Establish the Minor in Pharmacology and Toxicology.

This proposal was approved by the MNS faculty and the New College Undergraduate Curriculum Committee. This memo certifies that the School has the resources to support this program without impacting core program resources.
From: Todd Sandrin <Todd.Sandrin@asu.edu>
Date: Friday, March 29, 2019 at 4:04 PM
To: Nancy Gonzales <nancy.gonzales@asu.edu>
Cc: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: RE: Request for Impact Statement - PTX Minor

Thanks so much, Nancy!

From: Nancy Gonzales
Sent: Friday, March 29, 2019 3:54 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>
Cc: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: RE: Request for Impact Statement - PTX Minor

Dear Todd,
We are fine with this proposed minor. Sounds very interesting.

Nancy
Stacey Kimbell

From: Patricia Friedrich
Sent: Friday, March 29, 2019 2:30 PM
To: Stacey Kimbell
Subject: FW: Request for Impact Statement - PTX Minor

FYI

From: Deborah Helitzer <Deborah.Helitzer@asu.edu>
Date: Friday, March 29, 2019 at 2:28 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>
Cc: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: Re: Request for Impact Statement - PTX Minor

Hi Todd – sorry this dropped through the cracks. We’ve gotten a lot of these. I don’t see any problem with it.

Deborah

Deborah L. Helitzer, Sc.D.
Dean and Professor
College of Health Solutions
Arizona State University
550 North 3rd Street
Phoenix AZ 85004
602.496.1943
deborah.helitzer@asu.edu
Web: chs.asu.edu

For appointments and information, please contact Malissa Todd (malissa.endsley@asu.edu)

From: Todd Sandrin <Todd.Sandrin@asu.edu>
Date: Friday, March 29, 2019 at 2:24 PM
To: Deborah Helitzer <Deborah.Helitzer@asu.edu>
Cc: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: FW: Request for Impact Statement - PTX Minor

Deborah,

Don’t hesitate to let me know if I can provide additional information here.

Thanks!
Todd
From: Todd Sandrin <Todd.Sandrin@asu.edu>
Date: Friday, March 29, 2019 at 2:23 PM
To: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: FW: Request for Impact Statement - PTX Minor

Here’s Duane’s. I’ll forward Judy Karshmer’s (via Katherine Kenney) next.

Todd

From: Duane Roen
Sent: Thursday, March 14, 2019 1:37 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>; Nancy Gonzales <nancy.gonzales@asu.edu>; Judith Karshmer <Judith.Karshmer@asu.edu>; Deborah Helitzer <Deborah.Helitzer@asu.edu>
Subject: RE: Request for Impact Statement - PTX Minor

Todd,

CISA is delighted to support New College’s proposal for a minor in Pharmacology and Toxicology.

Please me know what else we can do to help.

Best,
Duane

Duane Roen
Vice Provost, Polytechnic campus
Dean, College of Integrative Sciences and Arts
Dean, University College
Arizona State University
Mail Code: 2780
7271 E Sonoran Arroyo Mall
Mesa, AZ 85212-6415
P: 480-727-6513
FYI

From: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Date: Thursday, March 14, 2019 at 5:01 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>, Katherine Kenny <Katherine.Kenny@asu.edu>
Subject: Re: Request for Impact Statement - PTX Minor

Absolutely, Kathy. I am ready to talk anytime about how to make it accessible.

Best, Patty

From: Todd Sandrin <Todd.Sandrin@asu.edu>
Date: Thursday, March 14, 2019 at 4:44 PM
To: Katherine Kenny <Katherine.Kenny@asu.edu>
Cc: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: RE: Request for Impact Statement - PTX Minor

Agreed, Kathy! Copying our Associate Dean for Academic Programs and Personnel, Patty Friedrich, so she’s also aware of this great idea.

Todd

From: Katherine Kenny
Sent: Thursday, March 14, 2019 4:34 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>
Subject: RE: Request for Impact Statement - PTX Minor

😊 - this might be a good minor for our community health or integrative health students – Nursing too except they don't have the time in their POS

Best,
Kathy

Katherine (Kathy) Kenny, DNP, RN, ANP-BC, FAANP, FAAN
Associate Dean of Academic Affairs
College of Nursing and Health Innovation
Arizona State University
(P) 602-496-1719
(F) 602-496-0545
Katherine.kenny@asu.edu
From: Katherine Kenny
Sent: Thursday, March 14, 2019 4:31 PM
To: Todd Sandrin <Todd.Sandrin@asu.edu>
Cc: Judith Karshmer <Judith.Karshmer@asu.edu>
Subject: FW: Request for Impact Statement - PTX Minor

Dear Todd –
Thank you for asking us to review the proposal to establish a Pharmacology and Toxicology Minor. This minor does not compete with any of the degrees, minors or courses offered in CONHI. On behalf of the College of Nursing and Health Innovation, we support your efforts to move this through the University approval process. Best to you and your team.

Kathy

Katherine (Kathy) Kenny, DNP, RN, ANP-BC, FAANP, FAAN
Associate Dean of Academic Affairs
College of Nursing and Health Innovation
Arizona State University
(P) 602-496-1719
(F) 602-496-0545
Katherine.kenny@asu.edu
From: Todd Sandrin <Todd.Sandrin@asu.edu>
Date: March 14, 2019 at 4:16:06 PM EDT
To: Nancy Gonzales <nancy.gonzales@asu.edu>, Duane Roen <Duane.Roen@asu.edu>, Judith Karshmer <Judith.Karshmer@asu.edu>, Deborah Helitzer <Deborah.Helitzer@asu.edu>
Subject: Request for Impact Statement - PTX Minor

Deborah, Duane, Judy, and Nancy,

I hope this email finds each of you enjoying a pleasant and productive semester.

Might you provide a brief email and/or statement of impact regarding our proposed minor in Pharmacology and Toxicology (proposal attached) at your earliest convenience (or by next Wednesday, March 20)?

Thanks so much!
Todd

-----------------------------------------------------------------------------------------------------------------------------
Todd R. Sandrin, Ph.D.
Dean, New College of Interdisciplinary Arts and Sciences
Vice Provost, West campus
Professor, School of Mathematical and Natural Sciences
Senior Sustainability Scientist - Julie Ann Wrigley Global Institute of Sustainability
I approve.

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Todd

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Attached is the proposal to establish the minor in pharmacology and toxicology. It has been reviewed by Patty and the Undergraduate Curriculum Committee. Would it be possible to have your approval for the proposal, and if so, your approval to have Mary affix your electronic signature?

Thanks,
Stacey
March 12, 2019

To: Todd Sandrin, Dean  
New College of Interdisciplinary Arts and Sciences

From: Stephen Wirkus, Interim Director  
School of Mathematical and Natural Sciences

Subject: Proposal to Establish the Minor in Pharmacology and Toxicology

Attached please find the Proposal to Establish the Minor in Pharmacology and Toxicology.

This proposal was approved by the MNS faculty and the New College Undergraduate Curriculum Committee. This memo certifies that the School has the resources to support this program without impacting core program resources.
2019 - 2020 MINOR Map
Pharmacology and Toxicology (Proposed)

Program Requirements

The minor in pharmacology and toxicology consists of 20 credit hours. A minimum of 12 credit hours must be upper division. A minimum of nine credit hours must be taken through the School of Mathematical and Natural Sciences. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

**Required -- 14 credit hours**

- BCH 371: Modern Concepts in Biochemistry (3)
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- PTX 301: Basics of Pharmacology and Toxicology (3)

**Electives -- 6 credit hours**

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- PTX 432 / LSC 432: Fundamentals of Pharmacology (3)
- PTX 475 / FOR 475 / LSC 475: Principles of Toxicology (3)
- PTX 499: Individualized Instruction (3)

Depending on a student's undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.
FYI

**From:** Patricia Friedrich <Patricia.Friedrich@asu.edu>  
**Date:** Thursday, March 14, 2019 at 5:01 PM  
**To:** Todd Sandrin <Todd.Sandrin@asu.edu>, Katherine Kenny <Katherine.Kenny@asu.edu>  
**Subject:** Re: Request for Impact Statement - PTX Minor

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**To:** Todd Sandrin <Todd.Sandrin@asu.edu>  
**Subject:** RE: Request for Impact Statement - PTX Minor

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Best,  
Kathy

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Associate Dean of Academic Affairs  
College of Nursing and Health Innovation  
Arizona State University  
(P) 602-496-1719  
(F) 602-496-0545  
Katherine.kenny@asu.edu
From: Todd Sandrin  
Sent: Thursday, March 14, 2019 4:32 PM  
To: Katherine Kenny <Katherine.Kenny@asu.edu>  
Cc: Judith Karshmer <Judith.Karshmer@asu.edu>  
Subject: RE: Request for Impact Statement - PTX Minor

Many thanks, Kathy!

Todd

-----------------------------------------------------------------------------------------------------------------------------
Todd R. Sandrin, Ph.D.  
Dean, New College of Interdisciplinary Arts and Sciences  
Vice Provost, West campus  
Professor, School of Mathematical and Natural Sciences  
Senior Sustainability Scientist - Julie Ann Wrigley Global Institute of Sustainability

-----------------------------------------------------------------------------------------------------------------------------

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Sent: Thursday, March 14, 2019 4:31 PM  
To: Todd Sandrin <Todd.Sandrin@asu.edu>  
Cc: Judith Karshmer <Judith.Karshmer@asu.edu>  
Subject: FW: Request for Impact Statement - PTX Minor

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Kathy

Katherine (Kathy) Kenny, DNP, RN, ANP-BC, FAANP, FAAN  
Associate Dean of Academic Affairs  
College of Nursing and Health Innovation  
Arizona State University  
(P) 602-496-1719  
(F) 602-496-0545  
Katherine.kenny@asu.edu

Begin forwarded message:
Deborah, Duane, Judy, and Nancy,

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Might you provide a brief email and/or statement of impact regarding our proposed minor in Pharmacology and Toxicology (proposal attached) at your earliest convenience (or by next Wednesday, March 20)?

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Todd

Todd R. Sandrin, Ph.D.
Dean, New College of Interdisciplinary Arts and Sciences
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Senior Sustainability Scientist - Julie Ann Wrigley Global Institute of Sustainability