

Item	Amount	Category	Notes
1	100000	Salaries	
2	200000	Benefits	
3	300000	Travel	
4	400000	Supplies	
5	500000	Printing	
6	600000	Postage	
7	700000	Telephone	
8	800000	Utilities	
9	900000	Insurance	
10	1000000	Other	
11	1100000	Contingency	
12	1200000	Reserve	
13	1300000	Emergency	
14	1400000	Disaster	
15	1500000	Recovery	
16	1600000	Restoration	
17	1700000	Reconstruction	
18	1800000	Replacement	
19	1900000	Relocation	
20	2000000	Replacement	
21	2100000	Relocation	
22	2200000	Replacement	
23	2300000	Relocation	
24	2400000	Replacement	
25	2500000	Relocation	
26	2600000	Replacement	
27	2700000	Relocation	
28	2800000	Replacement	
29	2900000	Relocation	
30	3000000	Replacement	
31	3100000	Relocation	
32	3200000	Replacement	
33	3300000	Relocation	
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36	3600000	Replacement	
37	3700000	Relocation	
38	3800000	Replacement	
39	3900000	Relocation	
40	4000000	Replacement	
41	4100000	Relocation	
42	4200000	Replacement	
43	4300000	Relocation	
44	4400000	Replacement	
45	4500000	Relocation	
46	4600000	Replacement	
47	4700000	Relocation	
48	4800000	Replacement	
49	4900000	Relocation	
50	5000000	Replacement	

Part I. Curriculum Proposal Cover Sheet (see above)

Part II. Description of Curriculum Changes

1. Catalog description for the revised program in the appropriate form. This includes both the description about the program and the list of courses and credits for the revised program.

Old Description

The two associate degrees in Electro-Optics, Associate in Applied Science in Electro-Optics (A.A.S.E.O.) and Associate in Science in Electro-Optics (A.S.E.O.), are designed to produce trained and skilled workers that will move into senior technician slots in the electro-optics industry, both locally and nationally. With the A.S.E.O. degree the student has a choice of either going directly to work or matriculating at the IJIP major campus in the Electro-Optics

track in Applied Physics. The two associate degrees, A.A.S.E.O. and A.S.E.O., are offered at the IJIP Northpointe

2. Summary of Changes

a. The Physics Department is modifying the A.S. degree to better prepare students to meet industry needs. Appropriate features from the former Associate in Applied Science in Electro-Optics degree (in moratorium) are being incorporated into the A.S. degree. The course changes suggested are listed in the table below.

Title change	Old: Electro-Optics	New: Electro-Optics and Laser Engineering Technology
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PHYS 115 Physics I for Electro-Optics

3cr

EOPT 150 Fundamentals of Photonics and Laser Safety

3cr

~~PHYS 116 Physics II for Electro-Optics~~

~~3cr~~

~~EOPT 210 Detection and Measurement~~

~~3cr~~

EOPT 210 Detection and Measurement
 EOPT 220 Introduction to Lasers
 MGMT 234 Introduction to Quality Control
 Two courses from the following:
 EOPT 240 Fiber Optics
 EOPT 250 High-Vacuum Technology
 EOPT 260 Industrial Applications of Lasers

6cr

EOPT 240 Fiber Optics 3cr
 PHYS 115 Physics I for Electro-Optics or PHYS 131 Physics I 3cr
 PHYS 116 Physics II for Electro-Optics or PHYS 132 Physics II 3cr

Other Requirements: 3cr
 One PHYS or EOPT Elective - PHYS 100 will satisfy this requirement

Total Degree requirements:

64

Total Degree requirements:

62-63

choose to pursue the B.S. in Physics / Electro-Optics will need to take MATH 125 at the Indiana Campus to align with the B.S. Physics/ Electro Optics Track.

PHYS 131/132 as an alternative to PHYS 115/116 – PHYS 115/116 is offered at Northpointe to serve the largest number of students. It is a suitable course for the typical optical technician who will earn the A.S. Students choosing to pursue the four year degree from the beginning would take the PHYS 131/132 sequence instead of the PHYS 115/116 sequence.

Part III. Implementation. Provide answers to the following questions:

1. How will the proposed revision affect students already in the existing program?

Students in the program will be able to take the new classes in place of the old; the department will waive the

1

Revised 4/18/11 ss- passed NSM 4-11

Part V. Course Proposals

The new courses have passed the UWUCC at this time.

Attached below are four emails that indicate the supports to the changes related to SAFE 100, MGMT 234, MATH 110/Math 121 and CHEM 101/CHEM 111.

(a) Dr Lon Ferguson, the Chair of Department Safety Sciences, approved the removal of SAFE 100.

From: Lon Ferguson

To: Feng Zhou

Subject: Re: Course SAFE 145 offered for the EO program at Northpointe campus

I approve this change!

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

From: Feng Zhou

To: Lon.Ferguson@iup.edu

Cc: Olga Kaniastva; Devki Talwar

Sent: Tuesday, April 13, 2010 12:01 PM

Subject: Course SAFE 145 offered for the EO program at Northpointe campus

Dear Dr. Lon Ferguson, Chair of Department of Safety Sciences,

So far the SAFE 145 has been a mandatory for our Electro-Optics AASEO and ASEO 2 Yr degree students.

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I have heard from a majority in my Department; they have no objection in your removing this course from your curriculum.

If this email is not sufficient, please let me know and I will be glad to write a letter. Best wishes,
rgs

Ramesh G. Soni, Ph.D., Chair & Professor,

Management Dept, 304A Eberly COBIT (IUP)	(www.eberly.iup.edu/rgsoni/)
Indiana, PA 15705 USA	Office Hours: Mon: 10am to 11:15am Tue: 10:50am to 12:05pm; Wed: 9:30 am to 12:00 noon
Ph. 724 357 7786; Fax 724 357 5743	

On 4/7/2010 8:38 PM, Feng Zhou wrote:

Dear Dr. Ramesh Soni, Chair of Department of Management,

So far, the MGMT 234 has been a mandatory for our Electro-Optics AASEO and ASEO 2 Yr degree students. The course had been offered every year at the Northpointe Campus in the past since 2003. However, due to a relatively small size of the class and tight budgetary conditions, offering MGMT 234

has decided to replace this course with contents that are more closely related to emerging EO technology, in order to make the EO program compact and attractive – more importantly for our students to graduate on-time. I am, therefore, writing you this email to get your support for this change in the EO AASEO and ASEO program.

Yours sincerely,

On Feb 09, 2011, at 7:46 PM, "Feng Zhou" <fzhou@iup.edu> wrote:

Dear Dr Francisco Alarco,

As you are aware, the existing AASEO and ASEO programs at IUP Northpointe Campus will consolidate to one ASEO program. Right now, we are working on the ASEO program revision. As we noticed, there were a lot of EO students who failed the Math 121 course in the past. Considered this, we would like to change the Math requirement for the ASEO program from MATH 121 to MATH 110. However, we will keep the MATH requirement for the Bachelor degree unchanged, which means, if the student wants to pursue a Bachelor degree, he/she has to take and pass the MATH 121

If this is ok with you, please drop me a short email to indicate your support to this change. Your support would be very much appreciated.

Feng Zhou, PhD
EO Program Coordinator, Department of Physics
Indiana University of Pennsylvania
167 Northpointe Blvd
Freeport, PA 16229
Tel: 724 294 3300 x 27; Fax: 724 294 3310

- (d) Dr John Woolcook, the Chair of Chemistry Department, agreed the use of CHEM 101 as an alternative for CHEM 111.

From: "John Woolcook" <woolcook@iup.edu>

