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ACADEMIC PROGRAM REVIEW REPORT AY2023-24 
Program(s) in the review: BS Electrial Enginering 
Specialized Accrediting Agency (if applicable): Enginering Acreditaon Comisn ofABET 
Campuses where the program is delivered:  Anchorage  KOD  KPC  MSC  PWSC 
Year of last review: AY20 
Final decision from last review: Continuation
 
PROGRAM SECTION (Due on March 1) 
The progameviw comtehair ndcomite brsaigned bythan. Alprogam 
faculty shouldbe include inthrvew pocs,inludg facltyon hecmuity apse.After 
completing hProamSection belw,th progameviw commite charwil entrhiame nd
date, nmilths formthe dan,copyig alcomite brs.If theprogam isfuly delivr 
on acmuity aps,coy theaproit cmunyaps directo(s). The progameviw 
committee chair’s name andtlies arthndof ePrgamSction. 
Program Review Committee: 
Jens Munk, Profes, Dpartment Chair,Pogm CiteRvw Chair,Electrial Enginering 
Todd Petrsn, Profes, Electrial Enginering 
Mat Kupilik, Asociate Prof

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oferings below thislevl would creathudle tograduation, ordrive oustdents oake
electivs from theuniverst. 
With regads toelectivs, wearcuntly alternating yearsfo meles poular couse.For 
example, EA47Power Electronics beng oferd evryoth Spring semtr,alternating 
with EA417Gren Energy. In theFall, E A407Power Distbuon isalternating yearswith E
A4X Electrial Machines. Thiwasdone toadd breadth oepwrside ofthcurilum, 
and kepthnumber oflectiv oferngs permtoan aceptble minimu. 
It isexpctd thaenew Termhi, woaspecilty in DatComunicatons and 
Informatin Theoryma felectivs n thisare toimprve thComunicaton side ofth
degr. Any new lectiv wll beschduled in awystomintain higernrollments acro
electiv oferings permt. 
The Mcanical Enginering departmnt aproved acurilum change bywhicte MEmajors 
no longer takESA306 lemnts ofElectrial Enginering, and now takeEA203, Fundamentals 
of Electrial Enginering, along witheEand CSE majors. Thelab wsremovd toiswn 1CR
separt lab clas whictey do not ake.Both lecturs oved thesamril. Previous t
the cange, thEdepartmnt oferd aFall section of203and bothFall and Spring sections of
ES A306.We now ferEA203 evrysmt, and no longer ofESA306. Thelab, E
A203L, isonly oferd in theFall. Thisreduces thnumber ofcuseE alty arequid to
cover psmt,and increas thnrollment in one EA203ach semtr. 
Actions taken to date (2500 characters or less) 
Se above 
Evidence of success to date (2500 characters or less) 
Se abov 
Recommendation 2: Continue to seek items for continuous improvement, collaborate with UAF to 
best utilize our respectiC9(co)4(n)pit6(3)-3( e)7(v)-4(er)10(y)-3( s)8(em)4(est)7(er, )-2(an)4(d)3 to

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Evidence of success to date (2500 characters or less) 
Several students in past semesters have taken UAF’s autonomous aerial vehicles course which is 
a 60levl graduate/ndergaduate cors,whic eaptsifyng one ofurAdvanced 
Enginering Electiv rquemnts. 
2. Demonstrate the centrality of the program to the mission, needs, and purposes of the university 
and the college/community campus. Include how the program is integrating (or planning to 
integrate) intentionally designed opportunities for students to develop the four core competencies 
(Effective Communication; Creative and Critical Thinking; Intercultural Fluency; and Personal, 
Professional, & Community Responsibility). (3000 characters or less) 
The program meets UAA’s mison tosuprwkfoce devlopment in theigdemand jobfield 
of electrical engineering. EMSI data indicates that approximately 90% of the program’s graduates 
work in Alask. Theprogam cllabortes wihoter Enginering departmnts, Phyics, Geological 
Sciences, and withnumeros gvnment enties nationally and in thesa.Som cursea
cros-listed and shared withoer departmnts (Phyics, CS&EM). 
The lectrial enginering proamthe Universty ofAlask Anchorage iscomtted tohe
University’s mission to discover and disseminate knowledge through teaching, research,

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E faculty aUAhveconducted extrnal resachwit, bunot limted to,hefllowing entities: 
o National Science Foundation – NSF 
o NOA SeaGrnt – with UACS 
o Alask Deprtmnt ofFish &Game 
o Numeros pjctwih UAF 
o Alask Deprtmnt ofTransportain (ADOT) 
o U.SDepartmnt ofDense 
o U.SDepartmnt ofEnergy 
o U.SDepartment ofTransportain 
The StaofAlask Deprtmnt ofLabor nd Workfce Dvlopment does designate nginering 
as higdemand jobare(HDJA). 
 
3. Demonstrate program quality and improvement through assessment and other indicators. 
a. Program Student Learning Outcomes Assessment and Improvement Process and Actions 
i. BS Electrical Engineering 
x 1) Anabilty odenify, ormulate, ndsolve cmpxngier poblmsy aping
princles ofnginerig, scenadmthics; 2)Anabilty oapengir 
design toprduce soltinha metspcifd neswith consideraton fpublic heat,
safety, ndwelfar, swelagob, cultra, socilenvromtal, ndecomi fatrs;
3) Anabilty ocmuniate fcvlywith arngeof audiencs; 4)Anabilty orecgniz 
ethical ndprofesinal responibltes ngirtuaons dmkeinformd 
judgments, whicmust oniderth mpacofengir solutin gobal, econmi, 
enviromtal, ndsocietal onxs;5) Anabilty ofuncti efvlyon atemwhos 
mebrs togehrpvid learship, creatolbive andclusive nromt,
establih goas,pln task,dmet objcives; 6)Anabilty to devlpan codut
aproite xprmntaio, lyzeand itrpea, ndusegirn judgment o
draw conlusi; 7)Anabilty oacquire andplyew knoldge asn,uig 
aproite larnigste. 
Describe your key findings for these outcomes. (3
ropria

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graduation. Thesrults aregd asn avergoll UAEtesakr vuthe
national avergof all tesakr. Welso mnitor eachtegory ftheEFE examfor student 
perfomance ashkon indivdual subject. 
Ther isaGduate Exisurvey poided toseniors athend oftheir capstone design course, 
wher suvythem on theiropnion ofhwell theydid withrespc tomastery ofh7
SLOs and howell weasdepartmnt did withnstrucion ofthseSLOs. Additonal itemson 
the alth ofeinstrucional labs, computer labs, fcilites, c.arelso urveyd. 
Additonal asemnts ofSLOs arepfomd byindivdual instruco in speciflase. Evry
Fall semtrbfo clase trwconduct aFaculty meing whertsults fromhe

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discuss what you are doing to close any equity gaps. The Student Success program review 
metrics are Junior Graduation Rate, Associate Graduation Rate, Semesters to Degree –

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a pre-req fono les than fourpedivson Ecourse. Thutdents whodo not pashi
course anot sebackfull yearfom tking any ofthellow upcrse. 
c. Provide evidence of the overall success of students in the program. For example, you might 
talk about the percent of students in post-graduation employment in the field or a related 
field, the percent of students who go on to graduate school or other post-graduation training, 
and/or the percent of students who pass licensure examinations. You might also give 
examples of students who have been selected for major scholarships or other competitive 
opportunities. [Please do not use personally identifiable information.] (3500 characters or 
less) 
Graduates fromthe E progam hvebn sucefl in gaining employment fromawide range 
of employers in Alask nd beyond. Wehavgrduates working locally forfederal agencies, 
local telecomunicatons and utilites, and Alask oil and gascorptins, as well asll of the

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semtr, opsne thirducation altogehr. Finally, astheig-schol enrollments 
withn Anchorage vdeclined, UAhaslso en aprotinal decline in theirnrollments. 
Our 203atio fu-of-

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Recommendation 1: Establish a course rotation that reduces internal competition for course 
enrollment by ofering fewer courses per semester and that reduces the number of elective 
courses ofered each semester. Recomndation hasben met. 
We concur thaepogrm haselistcally tracked itselectiv oferngs toifaculty resouca

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electiv oursed byother pgams,rticularly theBSand MSE,the BA/SC,and the
BSCE. Weafirm thademand forenginers in Alask, including electrial enginers, xcds what
UA and UAF areble toprduce. 
6. Productivity and Efficiency (2000 characters or less) 
We suspect that the Department’s reasoning as to factors contributing to its declining SCH/FTEF and 
FTES/FTF (COVID, budget cusoheUA sytem,and declining HSenrollment in Alask) relikely 
coret. We furthage withDparment haesrnds areColleg-wide. W
recomnd thaeDprmnt workihEnrollment Servics todentify additonal oprtunites 
for uteach and collabortin (thisrecomndation isnot limted toheEDpartment). 
7. Duplication and Distinctiveness (2000 characters or less) 
We afirmth ecobined production ofEgrads from bthurColleg and theUAF Colleg of
Enginering and Mines insuficent forhecunt neds ofthea. Bothprgams ily 
serv tudents wihn thecamnt areofch universty, and eachprogm asitown aresof
distnction thanks topecializaton among thefaculty. 
8. Strengths and Ideas for Moving Forward (2000 characters or less)