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The SEM specific Sturbert Outcomes are covered in the three courses listed below inducted as degreen equinements in the SEM dual major program The courses where assessment is performed are indicated with an asterisk (\*). Outcome (a) is assessed in SEM 121, and outcome (b) is assessed in SEM 122. F

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## Formal assessment of the two SEM sturbert outcomes was concluded during the 2020 2021 acidemic year using direct measures such as course projects and assignments

In addition to direct assessment measures, the student outcomes (a) and (b) were indirectly assessed through a senior exit survey. Senior exit surveys are concluded every year in the spring term. The indirect assessment data used in the 2020-2021 report vas collected after the end of the corresponding assessment year.

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At the beginning of the assessment cycle, an assessment plan was generated by the Assessment Coordinator in consultation with the Assessment Hambook. The plan inducks the outcomes to be assessed during the particular assessment cycle, as well as the couses and terms in which these outcomes are to be assessed.

The SEM assessment process uses a signments and projects in SEM courses specifically to assess programatic student outcomes. These assignments are assessed based on ubics or eated by Oregon Tach SEM faulty. A systematic, rubic based process is used to assess the level of attainment of a given programout come, based consists of performance oriteria. The vork produced by each student is evaluated according to the different performance oriteria, and assigned alevel of 1 developing 2 accomplished, or 3 exemplary. The results for each outcome are then summarized in a table and reviewed by the facility at the armet Closing the Loop meeting. The acceptable performance level is to have at least 80% of the students obtainalevel of faccomplished or even play in each of the performance oriteria for any given taget level, and the exidence indicates that there is sufficient data and an adopte assessment methodologyaheady inplace, and therefore there is no reason to question the results obtained

If the faulty choide to take this kat couse of action and implementation in undrarges, the chafter in the chiedrane section of the section of

In addition to direct assessment measures, indirect assessment of the student outcomes is performed on an and basis through a serior exits unvey

The results of the direct and indirect assessment, as well as the conclusions of the facility discussion at the Closing the Loop meeting are included in the annual SEMAssessment Report, which is reviewed by the Department Chair and the Director of Assessment for the university. The suggested angest to the curical unace presented and is cursed with all the Table(a) 1 summizes the results of this taggind assessment. Table (a) 1 summizes the results of this taggind assessment. The results indicate that the minimum acceptable performance level of 80% vas not on all performance or iteria for this program cutcome, that is, 80% of sturkerts ware able to apply systems engineeing methods to practical problems involving one or more engineeing disciplines.

Outcome (a): and it is to apply systems or givening methods to practical problems in obving one or none or givening deciplines						
Performance Criteria	1-Developing	2Accomplished	3Exemplay	%Students>= 2		
1 Knowledge	0	2	5	100%		
2- Application	0	2	5	100%		

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Date Presented

Instructor: James Eastham 1-Developing 2Conpetent 3Exemplay Scale []Missing outline [] Wellorganized [] Conpetent plus **Organization** []Mssingsummay []Does not follow [] Easytofolow additional organization [] Contains outline nethods agarizedpattem [] Contains summary [] Follows clearlogical pattern [] Good/ClearPicblem []Good/Clearpicblem [] Roor/ Linckear ProblemStatement Statement CRWsy problemis statement AND inputant [] Good/Clearwhy poblemstatement []Roor/Unclearwhy inpotat problemis inportant poblemis inpotant Hypothesis & Method [] Poarhypothesis AND [] Soundhypothesis OR clear [] Soundhypothesis AND []Pornethodfollowed nethod [] Clear nethod followed to analyze problem to analyze problem ProblemSummary & Analysis [] Attempts to discuss [] Hentilies are armue key [] Hentilies and tracughly issues, bit fisk to problem. Boxits or you a describe milite problem; recognize any of the key superficial discussion of the initiates relevant poliens of the case poliens with mode cussion of inpotence anong the . relevant importance. issues and explains why. Decision Model Criteria & Formation [] Linitednesearchand [] Goodnesearchandlinks to [] Excellent researchinto documented links to cause learning innodel the issues with clearly nodel development development documented links to model development 

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Data Driven Approach [] Makes little or vague Connections Theory and Practice: co Pr

Term

#### Date Presented Instructor:James Eastham

### Term

	1 Developing	2Conpetent	3Exemplary	Scae
Organization	[]Does not follow	[] Wellorganized		
	[]⁄oganifieslystitem l	[]Easy to Enized ~	1-	