SkillsCommons Manufacturing Editorial Board

MERLOT – SKILLSCOMMONS Peer Reviewer Report Form (V 52218)						
Name of Learning Material:	CAD 255 Solidworks - Front Range Community College					
SKILLSCOMMONS URL:	https://www.skillscommons.org/handle/taaccct/10127					
Learning Material URL:						
Reviewer's Name:	Carla Fitzpatrick					
Date Review Completed:	7/5/18					
Review Time Required:	1.5					
Rejected? Y/N	**N**					
Description						
1. Overview: Describe overview, features and descriptions, uses, and applications. Include cost, if any for apps	Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.					
2. Type of material: Animation, assessment tool, assignment, case study, collection, development tool, drill and practice, e-portfolio, learning object repository, online course, open journal article, open textbook, presentation, reference material, simulation/game, social networking tool, quiz/test, tutorial, workshop and training material.	Hybrid/Blended Course					
3. Technical requirements: Browser, software or plug-in, Java, HTML, Flash, etc. You can test how it appears on Internet Explorer at http://ipinfo.info/netrenderer/ Note type of device if it is an app (iPad, Android, phone, etc.)						

4. Identify major learning goals/ curriculum objectives: Purpose of site, goal for learner/user.	Course Competencies: 1. Locate given points in a coordinate system. 2. Discuss the right hand rule, viewpoint, standard views, plan view, and isometric views. 3. Explain view orientation in relationship to 3D coordinate systems. 4. Define, create and use drawing, work, and sketching planes to develop a model profile. 5. Discuss proper profile creation and limitations. 6. Use pre-constructed solid shapes as building blocks. 7. Identify hidden lines. 8. Discuss advantages and disadvantages of one technique over another. 9. Discuss the three-dimensional modeling process for parametric models and non- parametric models. 10. Create extrusions of profiles to three-dimensional parametric models. 11. Discuss the theory of constraints and how they drive the model construction. 12. List default constraints and explain their control over parametric geometry. 13. Solve basic geometry constructions using constraints. 14. Develop a new set of constraints by removing, modifying or adding constraints. 15. Use standard parametric construction techniques to create boxes, cylinders, and spheres. 16. Create sweeps using linear and circular operations. 17. Discuss the theory of adding holes, fillets and chamfers to parametric models. 18. Recognize the limitations of and restrictions of placing features on models. 19. Demonstrate how to correct over defined sketches. 20. Assign dimensions to the parametric model					
5. Recommended uses: In-class, homework, individual, team, lecture, etc.	This course is a full on-campus class. I will be taught through an interactive lecture format, classroom activities as well as online material. Students are expected to complete the reading assignments and come to class prepared to discuss the material. We have a lot of information to cover in a short amount of time, so it is important that students don't fall behind in the reading.					
6. Target population: Level, course or subject matter, other user groups	2nd year CC level					
7. Prerequisite knowledge or skills needed: Course or subject matter, computer skills, other miscellaneous skills	Computer knowledge- requires user to navigate through content.					
8. Application to industry recognized certification: Name of credential or certification.						

Evaluation and Observations: After reviewing the learning material, please indicate your agreement with the following statements by utilizing the scoring scale: 4=Strongly Agree; 3=Agree; 2=Disagree; 1=Strongly Disagree; and 0=N/A.

#1 Quality of Content – The Learning Material…	Strongly Agree: 4	Agree: 3	Disagree: 2	Strongly Disagree: 1	N/A: 0	TOTAL
…is clear and concise	4					4
…provides a complete demonstration of the concept	4					4

…demonstrates a core concept grounded in the discipline	4					4
…is current and relevant	4					4
…is supported by appropriate research		3				3
…is self-contained (can be used without requiring an assignment or context)	4					4
…provides accurate information	4					4
…is flexible (can be used in several situations)	4					4
…includes an adequate amount of material	4					4
...has strong workplace relevance	4					4
…integrates the concept well	4					4
Overall, the quality of the content is very high	4					4
Total: #1 Quality of Content						47

#2 Potential Effectiveness as a Teaching Tool/This Learning Material…	**Strongly Agree: 4**	**Agree: 3**	**Disagree:2**	**Strongly Disagree: 1**	**N/A: 0**	**TOTAL**
…identifies learning objectives	4					4
…identifies prerequisite knowledge		3				3
…reinforces concepts progressively		3				3
…builds on prior concepts		3				3
…demonstrates relationships between concepts	4					4
…is easy to integrate into curriculum assignments	4					4
…is very efficient (could learn a lot in a short time)	4					4
…can be used to measure student learning outcomes		3				3
Overall, learning material is a very effective teaching tool		3				3
Total: #2 Effectiveness as Teaching Tool						31

#3 Ease of Use – This Learning Material…	**Strongly Agree: 4**	**Agree: 3**	**Disagree: 2**	**Strongly Disagree: 1**	**N/A: 0**	**TOTAL**
…is easy to use	4					4
…has very clear instructions	4					4
…is engaging	4					4
…is visually appealing	4					4
…is interactive	4					4
…is of high design quality	4					4
…meets accessibility requirements if able to assess		3				3
…if an app, can be used on multiple types of mobile devices and					0	0
platforms		3				3
Total: #3 Ease of Use						30

Combined TOTAL scores (add together the totals as indicated above for #1, #2, #3	108
Optional Information:	

Other comments to be included in the review: (If an app, respects privacy of user, meets PG rating standards, how frequently app is updated)	Material is well organized and easy to understand. I had our engineers take a look as well and they belive this to be a good course.
Comments to author only: (Any needed improvements or recommendations should be addressed here.)