

# Fundamental of Materials Science

## Homework 2

### Personal Introduction by Presentation

In this part of the homework assignment, you are required to make a PowerPoint® file introducing yourself to the course instructors so that we can get familiarized sooner. The presentation should be made in English. Your presentation should include, but is not limited to, the following components.

1. Your personal information including at least one recent photo of yourself. The photos should be real, clear, and legible.
2. Your educational achievement until now, preferably starting from college, and possibly including analysis to your progresses made in the last three semesters. You could also include your transcript up to date, if you like, but the list of courses and grades cannot be simply a screen shot from your apps in Chinese.
3. Perform an SWOT analysis about yourself. Don't know what an SWOT analysis is? Please read how to do that from the internet. An effective SWOT analysis will help you project your future endeavors based on your current stage.
4. Your understanding and expectations of this course. You have so far taken two materials science courses already, how has materials evolution in the past impacted the world in terms of society, history, and technology? How will this third course differ from the past two in terms of helping your further understanding of materials science? This part requires no more than 3 slides.
5. Your future plan for the next 2 years, and 5 years, or even 10 years, based on your SWOT analysis. How are you going to realize it?
6. Please read Appendix 1 of this assignment for a guide to the Student Companion Site and learning-style survey, and write a paragraph (see Step 7 of Appendix 1) according to the results of your own investigation.

### Reminder

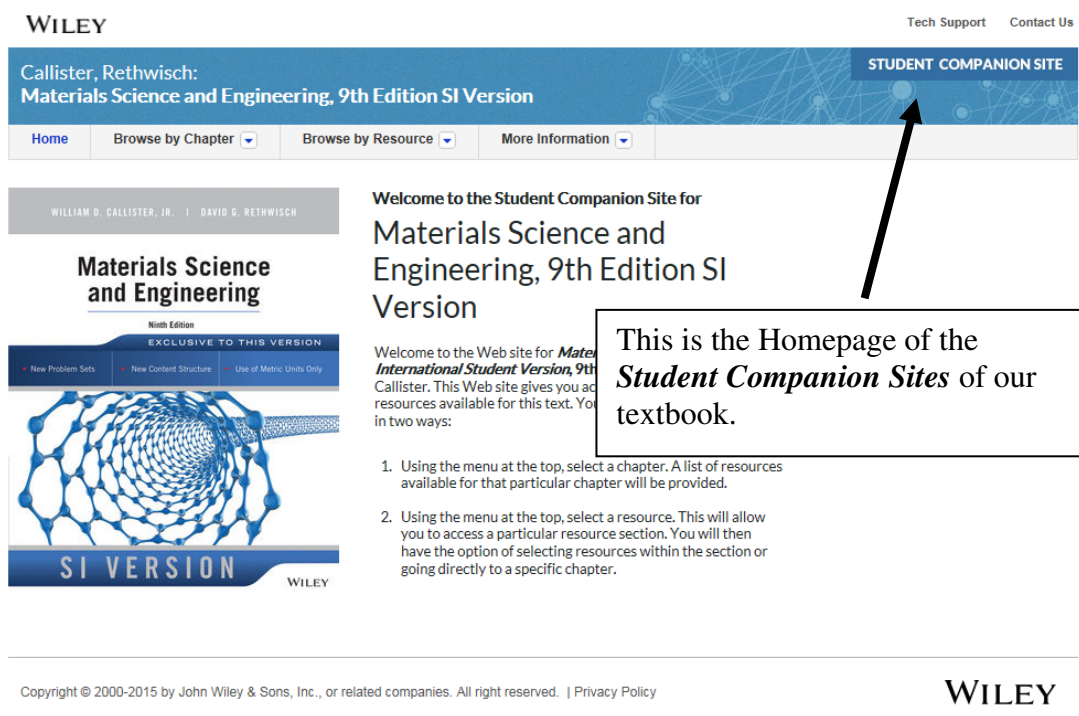
1. Although you have already built your resume in Homework 1, you cannot simply copy your resume to build your slides. Please treat them differently.
2. There is no page limit for the PowerPoint® slides. But remind yourself that you are already in your second year and you should do much better about the professional design and editing of your PowerPoint® presentation, as well as the rich information you provide! You may want to include as much information as you can without exceeding the required file size limit. However, I don't want to see a huge chunk of small sized words on one slide.
3. This homework is to be submitted online in **.pptx or .ppt** format by the deadline of **January 31, 2023**.

## Appendix 1

### A Guide to the Student Companion Site

Welcome to the course of *Fundamentals of Materials Science*. Your 5<sup>th</sup> problem in the second homework will be a training on the use of web-based resources of this course. The purpose of this homework is to get you familiarized with the **Student Companion Site** online to be used together with your textbook. Here are the steps that you need to follow to use the Student Companion Site and to complete this homework. What you see online might be slightly different from what I show below, but it works.

1. Go to <http://bcs.wiley.com/he-bcs/Books?action=index&itemId=1118319222&bcsId=8954>



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Home Browse by Chapter Browse by Resource More Information

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Ninth Edition

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Welcome to the Student Companion Site for  
Materials Science and Engineering, 9th Edition SI Version

Welcome to the Web site for *Materials Science and Engineering, 9th Edition SI Version* by Callister and Rethwisch. This Web site gives you access to resources available for this text. You can access these resources in two ways:

1. Using the menu at the top, select a chapter. A list of resources available for that particular chapter will be provided.
2. Using the menu at the top, select a resource. This will allow you to access a particular resource section. You will then have the option of selecting resources within the section or going directly to a specific chapter.

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2. You will now see several drop-down menus on the top where you can select the chapters to review and have online self-assessment exercises. Now explore the site yourself and get yourself familiarized with what resources are available to you.



3. Today's homework is to assess your learning styles. What you need to do is to click on the ***Browse by Resource*** in the top menu and the click on ***Index of Learning Style***.

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Home Browse by Chapter Browse by Resource

Answers to Concept Check Questions  
Mechanical Engineering (ME) Module  
Case Studies  
Index of Learning Styles

Click on the ***Index of Learning Style*** link.

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Welcome to the Web site for ***Materials Science and Engineering, International Student Version, 9th Edition*** by William D. Callister. This Web site gives you access to the rich tools and resources available for this text. You can access these resources in two ways:

1. Using the menu at the top, select a chapter. A list of resources available for that particular chapter will be provided.
2. Using the menu at the top, select a resource. This will allow you to access a particular resource section. You will then have the option of selecting resources within the section or going directly to a specific chapter.

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4. Then click on the ***Index of Learning Style*** link again. Once you enter the Index of Learning Styles Site, you can see the page as shown below.

http://bcs.wiley.com - Callister: Fundamentals of Materials Science and Engineering: An Integrated Approach, 2nd Edition - Microsoft Internet Explorer

STUDENT COMPANION SITE  
Callister: Fundamentals of Materials Science and Engineering: An Integrated Approach, 2nd Edition  
Index to Learning Styles

close this window  
to return to companion site

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HIGHER EDUCATION

INDEX OF LEARNING STYLES

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The *Index of Learning Styles (ILS)* is an instrument used to assess preferences on four dimensions (active/reflective, sensing/intuitive, visual/verbal, and sequential/global) of a learning style model developed by Richard M. Felder and Linda K. Silverman. A student's learning style profile provides an indication of probable strengths and possible tendencies or habits that might lead to difficulty in academic settings.

The questionnaire results simply indicate preferences, and the suggestions that follow the results are only that—suggestions. Your own experience should determine what you do with the questionnaire results. If the description of your learning style profile is inconsistent with your experience, feel free to disregard the suggestions. Also, the results indicate preferences, not necessarily strengths and weaknesses. For example, the fact that you prefer active processing of information does not mean that you cannot function effectively using reflection, and vice versa.

To complete the questionnaire, click Questions and respond to all 44 of the items. When all questions have been answered, click on Evaluate. Your learning style profile will be shown, along with a brief interpretation of the results.

About  
Questions  
Evaluate

Internet

5. Read the introduction to the Index of Learning Styles. Then click on ***Questions*** on the left menu to work on the 44 problems online. After you have completed the 44 problems, click ***"Evaluate"*** in the left menu to show your results and explanation of your learning styles. An example of the result page is shown below.



STUDENT COMPANION SITE  
Callister: Fundamentals of Materials Science and Engineering: An Integrated Approach, 2nd Edition  
Index to Learning Styles

Dimension	Score	Scale	Category
ACTIVE	11	0-11	REFLECTIVE
SENSING	9	0-11	INTUITIVE
VISUAL	7	0-11	VERBAL
SEQUENTIAL	11	0-11	GLOBAL

**Interpretation**

- If your score on a scale is 1-3, you are fairly well-balanced on the two categories of the corresponding learning style dimension.
- If your score on a scale is 5 or 7, you have a moderate preference for one of the two categories of that learning style dimension and will learn more easily in a teaching environment that supports that preference.
- If your score on a scale is 9 or 11, you have a very strong preference for one of the two categories of that learning style dimension. You may have real difficulty learning in an environment that does not support that preference.

**Your Learning Style Profile**

- You have a very strong preference for active than for reflective
- You have a very strong preference for sensing than for intuitive
- You are more visual than verbal
- You have a very strong preference for sequential than for global

For more information on how to interpret your learning style profile, click on [Learning Styles and Strategies](#).

6. Please save your learning style profile page, i.e., the test result page, and submit as part of your homework. You can save the results by copy and paste the result to Microsoft Word®. You can also perform the “print screen” function and paste the page into Microsoft Word® with legible picture size. Of course, you can also print to create a .pdf file to save for your future reference.
7. Then, ***based on the above results***, write a paragraph and tell me how you can help yourself with your learning in this course. How can you overcome your disadvantages in your learning? You can click on the “Learning Styles and Strategies” link (the last sentence of the test result page) for help to find out some suggestion on setting a proper learning style that fits you the best. Remember to edit your homework solution so that it will have a nice look and design.