

OS X El Capitan: Power Management

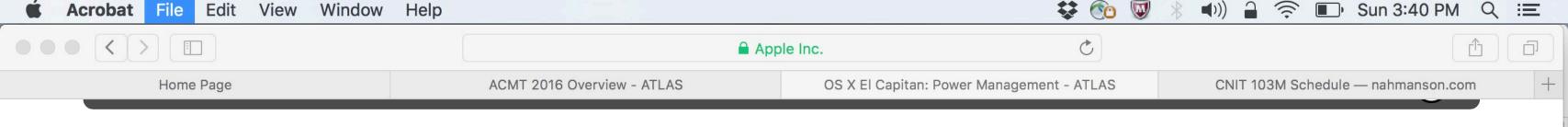
Introduction



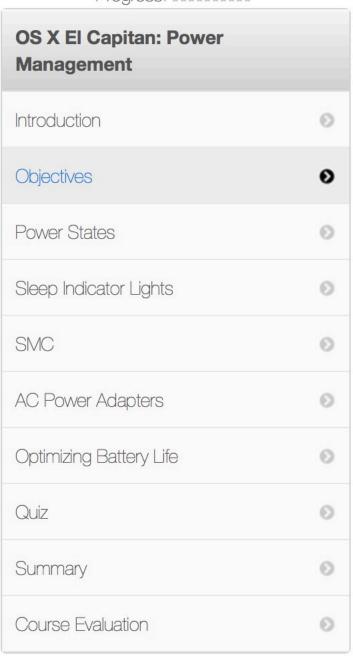
Course Description

The OS X El Capitan: Power Management course will explore the different power states of a Mac and how to identify those states. Additionally, it will cover best practices for battery life and proper adapter use for Mac portables.

This course is part of the ACMT 2016 curriculum and is used to prepare for the Mac Service Certification Exam (MAC-16A).

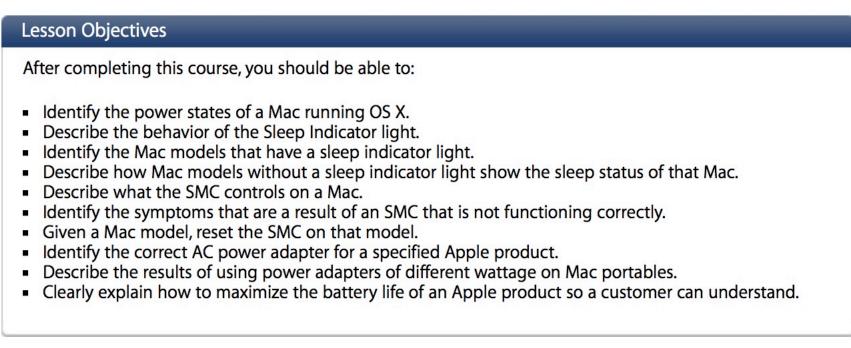


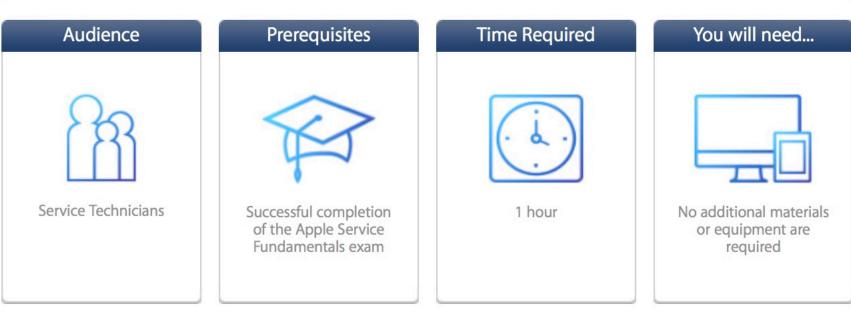




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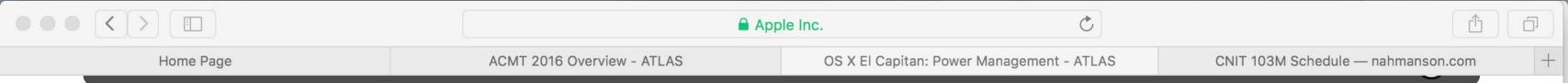
Overview





This course is designed for technicians who do not have immediate access to a Mac running OS X El Capitan. If you do have access to a Mac running OS X El Capitan, it is recommended that you use it while reviewing the course.

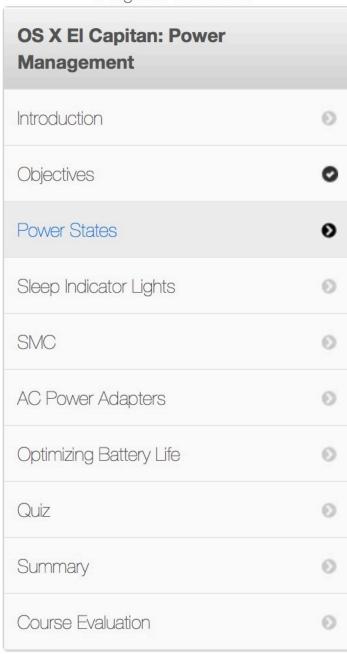






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OS X El Capitan: Power Management

Power States

Wake

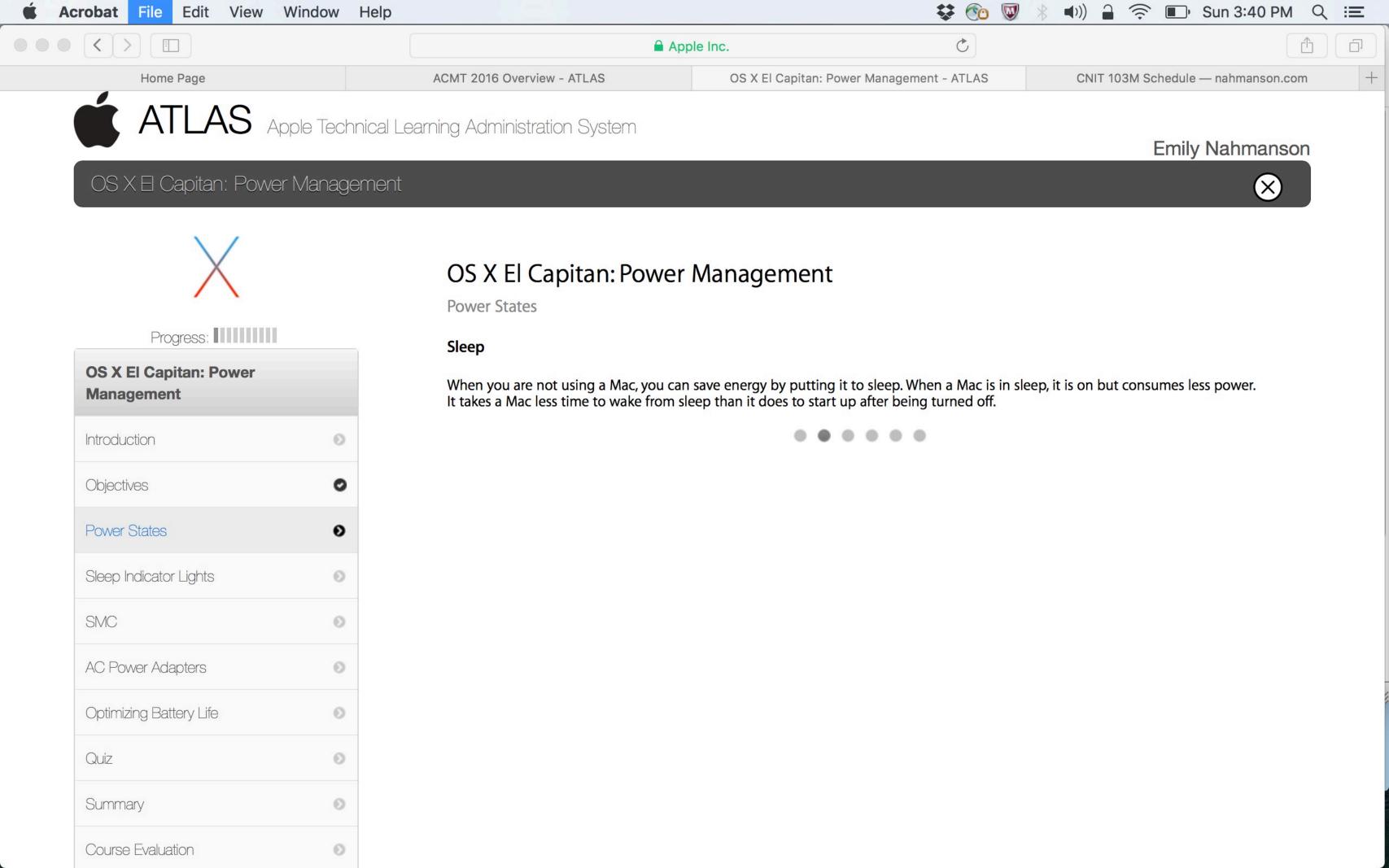
Wake is the state a Mac occupies when it is on and in use.

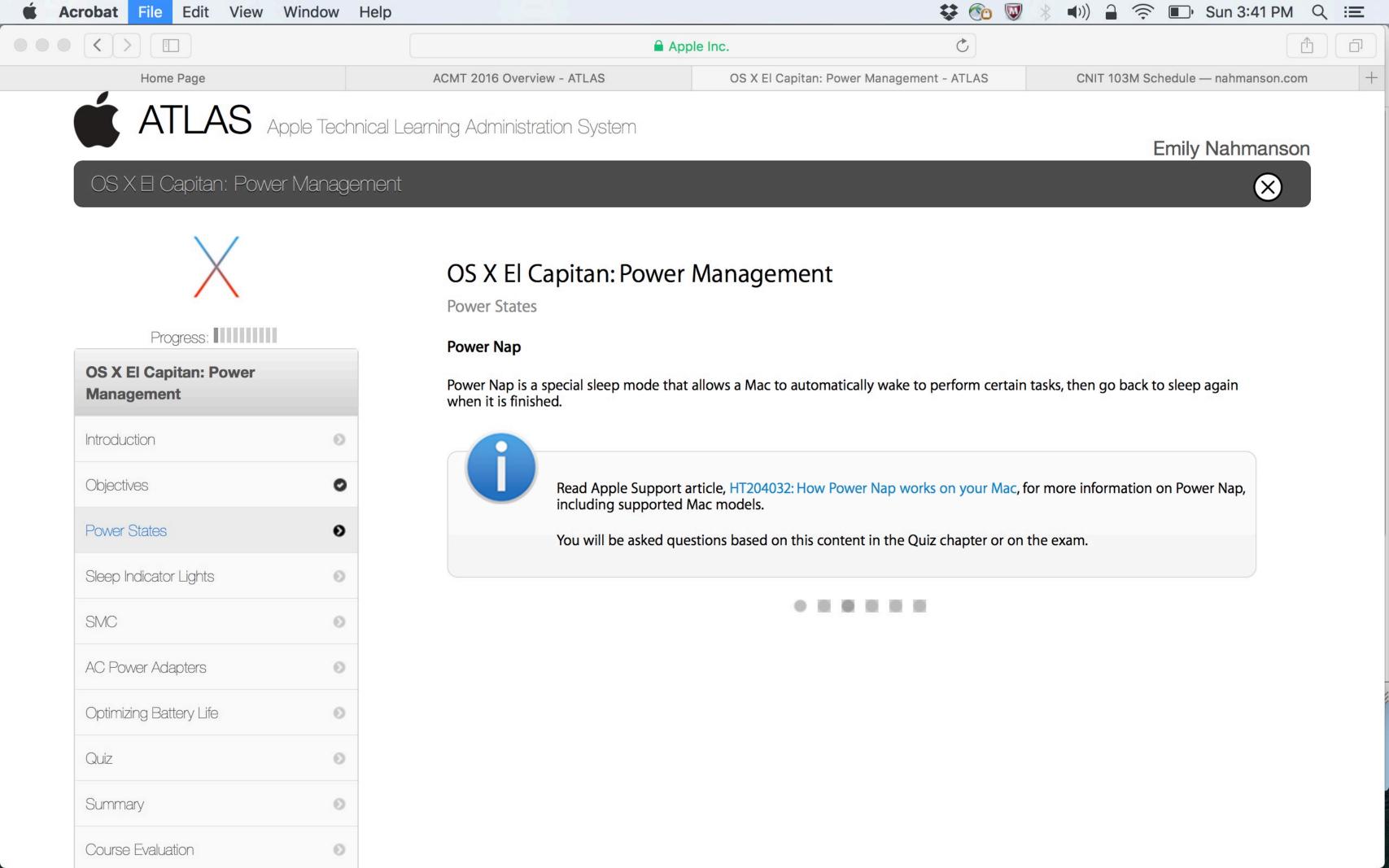


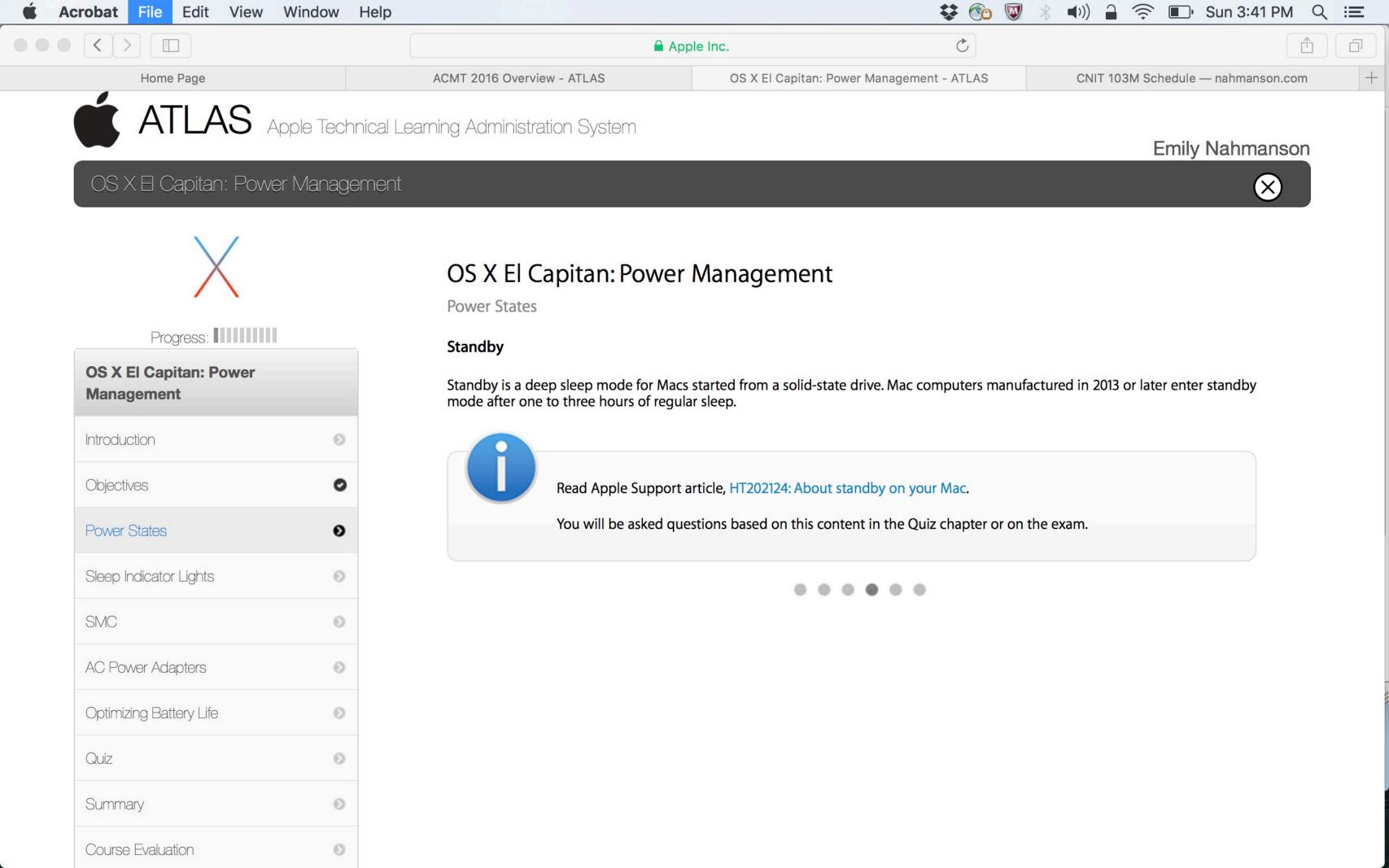
Read Apple Support article, HT202824: OS X: Saving energy with Sleep, as you learn about the various Mac power states.

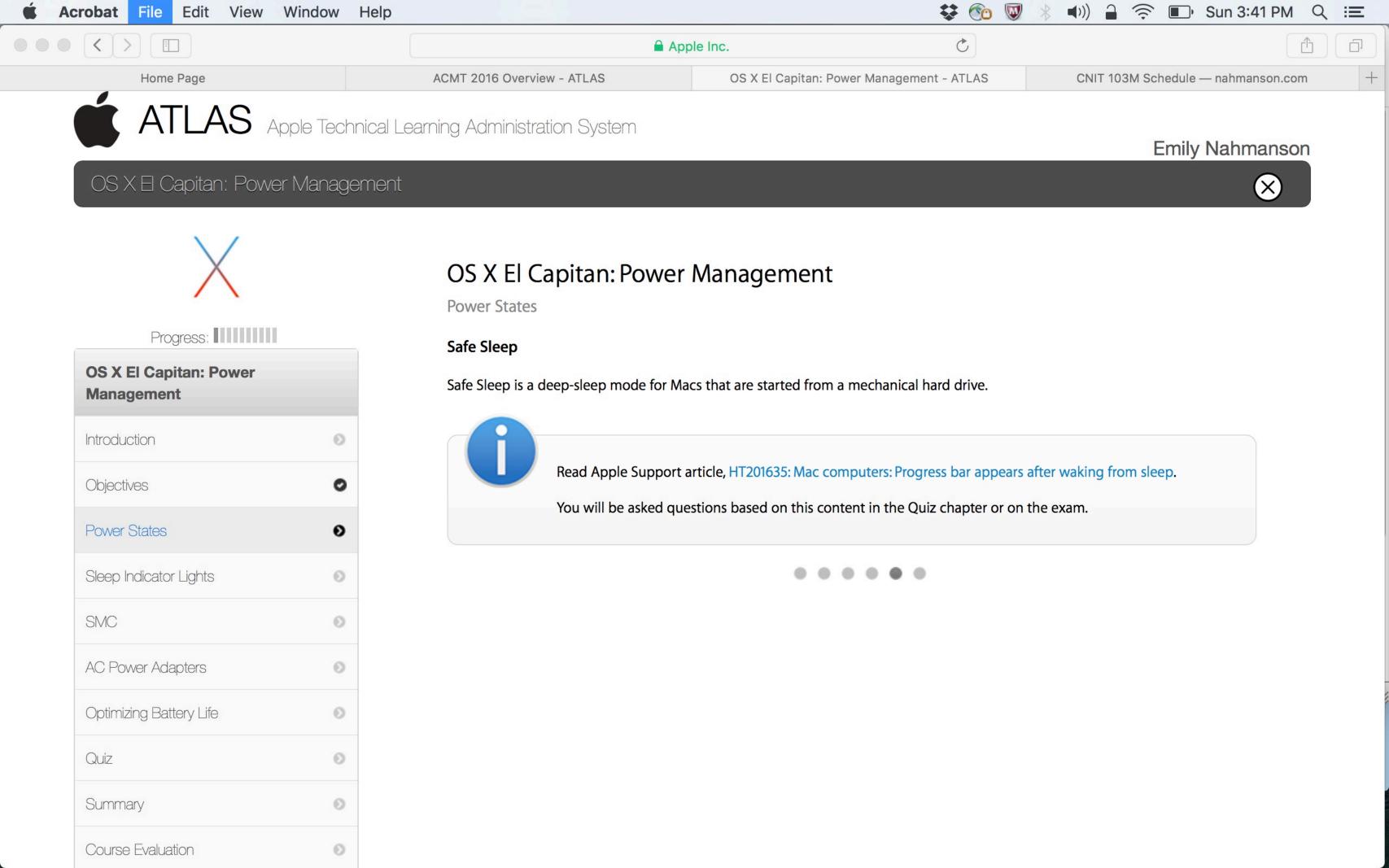
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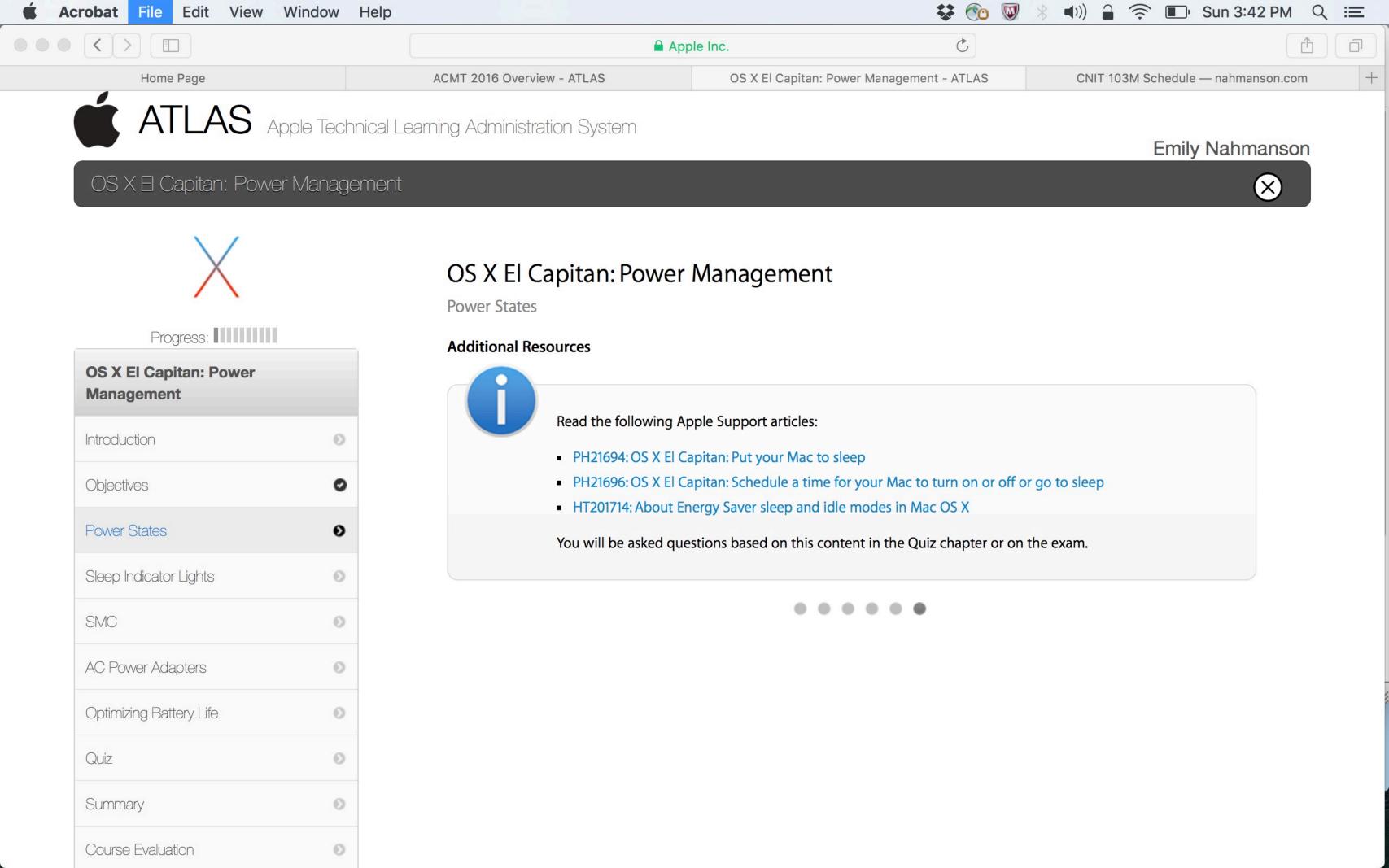
You will be asked questions based on this content in the Quiz chapter or on the exam.

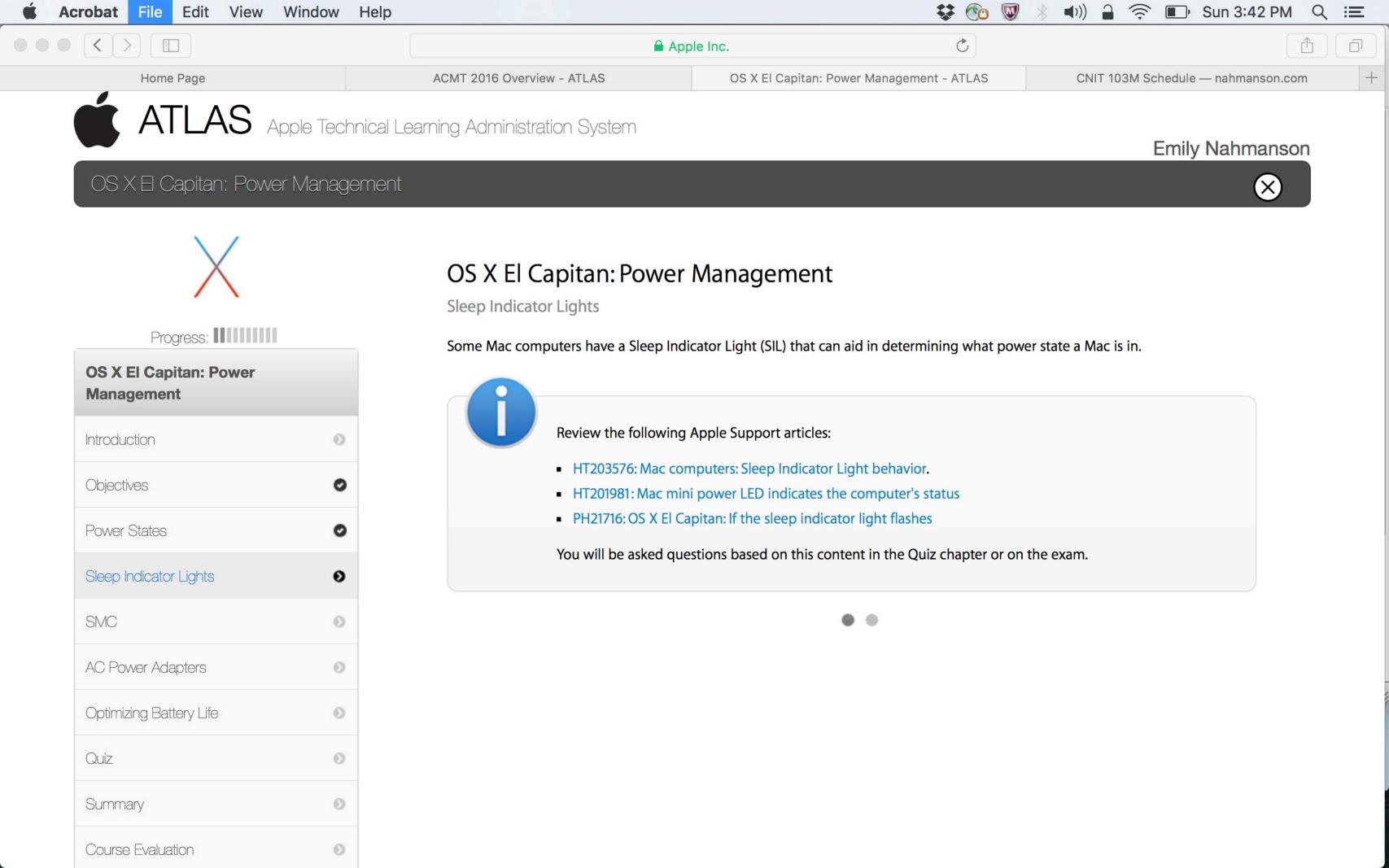


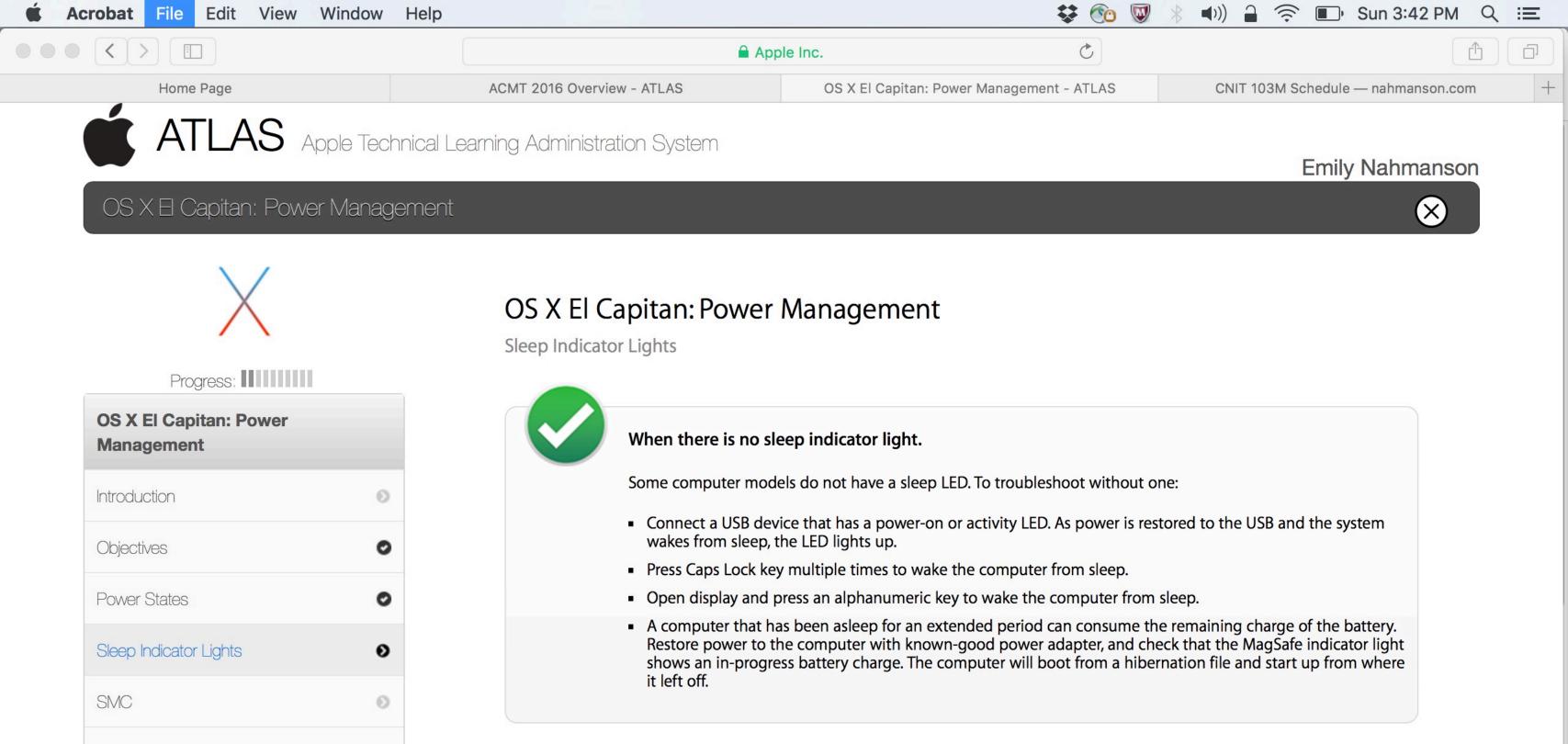












AC Power Adapters

Optimizing Battery Life

Quiz

Summary

Course Evaluation

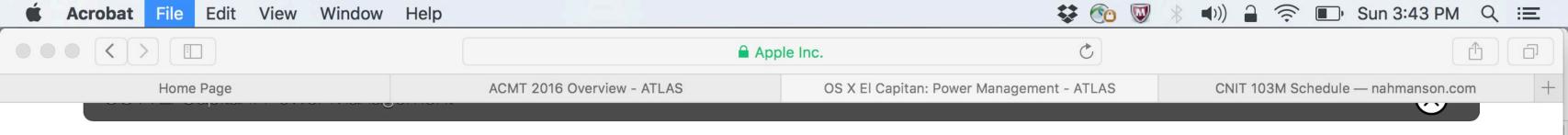
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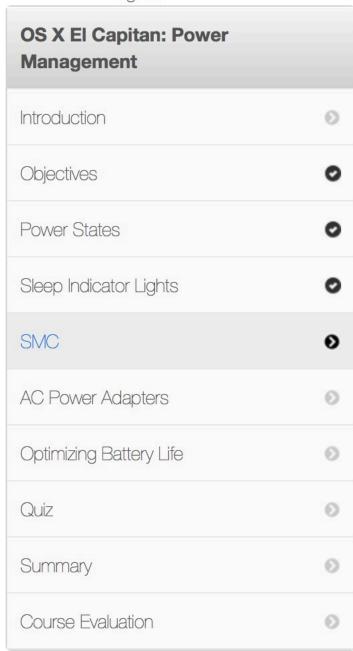
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OS X El Capitan: Power Management

SMC

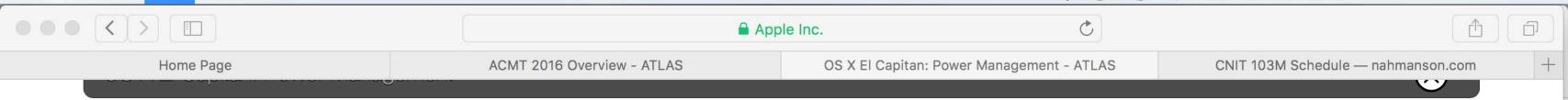
The SMC, or System Management Controller, is responsible for many of the low-level functions on a Mac.



Read the following Apple Support articles:

- HT201295: Reset the System Management Controller (SMC) on your Mac
- HT202040: About the SMC Firmware Updates

You will be asked questions based on the content in the Quiz chapter or on the exam.

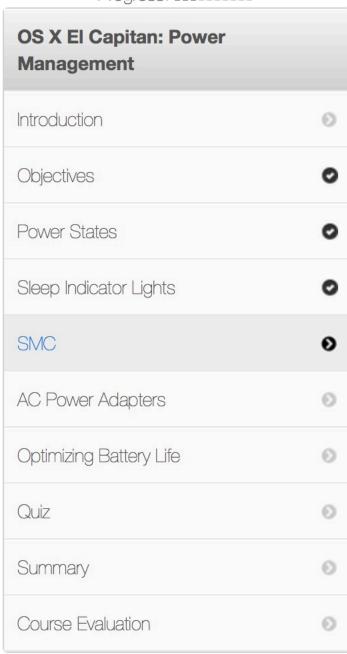




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SMC

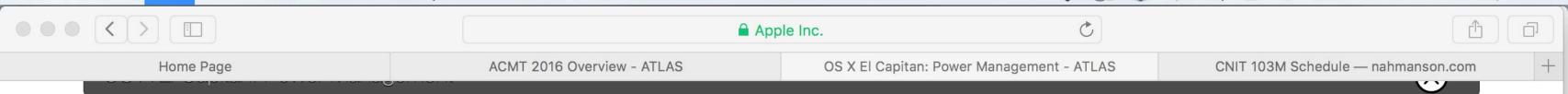
Resetting SMC instantly shuts down the computer, with some side effects:

- If the computer is in sleep mode, it will reboot from a hibernation file.
- If the computer is booted to OS X during the SMC reset, data from open applications can be lost.
- If the computer is already shut down, there will be no side effects.



Look for the MagSafe indicator light to momentarily switch from off to green as SMC is reset and re-establishes communication with power adapter, then change from green to orange if the battery needs a charge.

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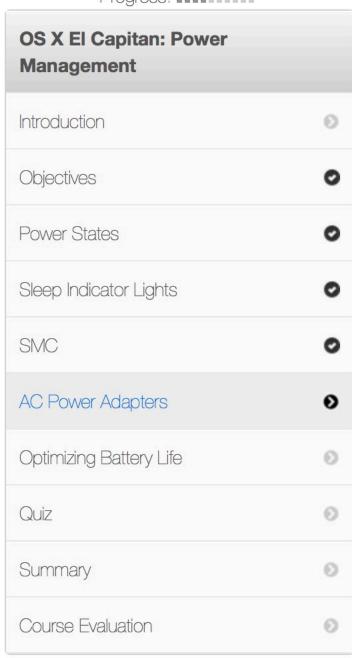


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AC Power Adapters

Portable Mac computers are charged using AC power adapters. You should use the appropriate wattage power adapter for your Apple notebook. You can use a compatible higher wattage adapter without issue, but it will not make your computer charge faster or operate differently. Lower wattage adapters will not provide enough power.

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Read the following Apple Support articles:

- HT201700: Find the right power adapter and cord for your Mac notebook
- HT203207: Apple Portables: Troubleshooting MagSafe adapters

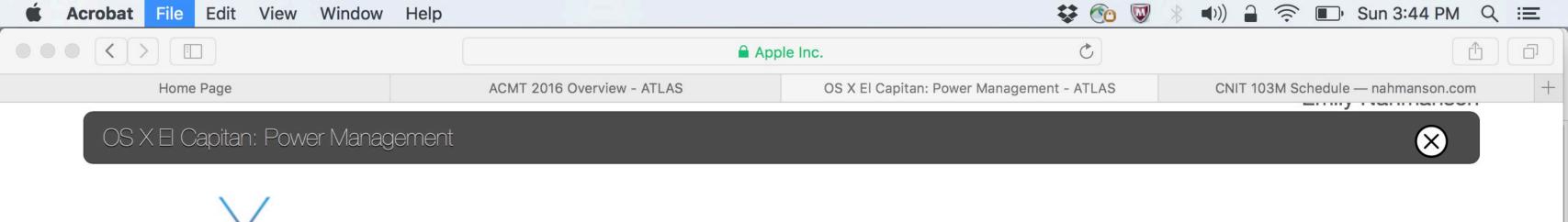
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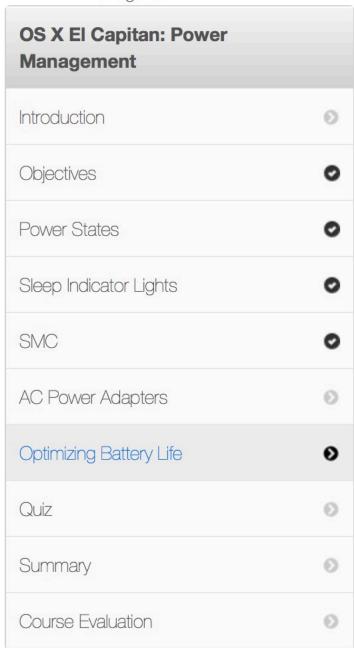
On the next page, match the Mac portable to its proper adapter.

The column on the left lists Mac portable models. The column on the right are the appropriate power adapters for those Macs.

Using the information you have learned about power adapters, re-order the adapters in the right-hand column so that they match the appropriate Mac on the left.







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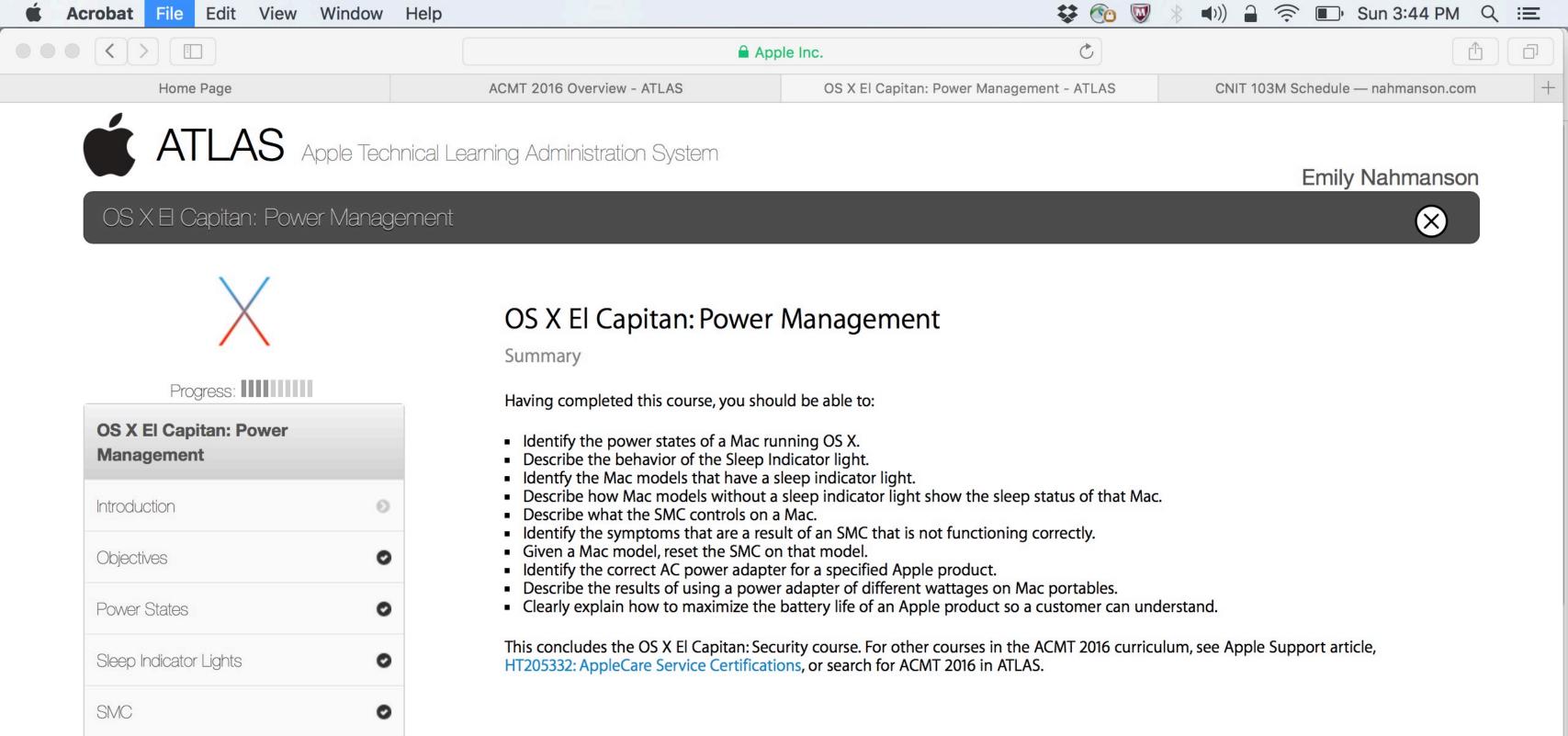
Optimizing Battery Life



Review the following and then complete the activity below.

- http://www.apple.com/batteries
- HT204054: About Mac notebook batteries

You will be asked questions based on this content in the Quiz chapter or on the exam.



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