Instructor’s Manual

for Financial Accounting

Advanced Customer Solutions

ALEKS Corporation
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Preface

Welcome to ALEKS, one of the most powerful educational tools available for learning accounting. ALEKS combines advanced learning technology with the flexibility of the Internet, and provides an interactive tutoring system with unmatched features and capabilities.

The innovative features of ALEKS open new horizons for educators and learners alike in any educational context. The ALEKS course management system enables instructors to efficiently monitor student progress and provide focused instruction. With its unprecedented use of Artificial Intelligence, ALEKS determines quickly and precisely what your students know and what they need to learn, guiding them down individualized learning paths to mastery. The syllabi used are customizable, letting you conveniently add or subtract topics. As ALEKS is accessed on the Internet, no complicated technical preparation is needed—and your students can work at any time, from home, from work, or from the classroom! ALEKS can also be integrated with a variety of ALEKS Corporation textbooks.

The benefits of using ALEKS are dramatic. Students work in a dynamic, interactive learning environment on precisely those materials that they are individually ready to learn, building momentum toward mastery. Students can access their ALEKS account around their own schedules and work on what they are ready to learn now. It is the personalized, “just-in-time” learning system.

ALEKS may be used in a variety of classroom situations—whether in a traditional classroom, or in a self-directed or distance-learning environment.

ALEKS is sold to the student as a subscription. The student purchases a User’s Guide with Student Access Code, usually through a bookstore or online. Using the Student Access Code along with the Course Code provided by the instructor, the student registers on the ALEKS website.

ALEKS can be adopted in one of two ways:

- ALEKS may be adopted as a supplement to a McGraw-Hill textbook. In this case, the student subscription cost is similar to the cost of a traditional print supplement, such as a study guide or student solutions manual. Students will need to purchase a McGraw-Hill textbook bundled with the User’s Guide with Student Access Code.
- ALEKS may be adopted as a stand-alone item. In this case, the instructor adopts ALEKS alone, and the students purchase the User’s Guide with Student Access Code for about the cost of a traditional textbook.

This Instructor’s Manual is intended to provide complete information on the functioning of ALEKS. A description of its contents can be found in Chapter 1.

Please also take time to explore the ALEKS website: it is a valuable source of information (https://www.aleks.com, Fig. 3.1). The website includes tours, overviews of ALEKS course products, troubleshooting and support information, training resources, and user guides. It also contains information on the theory and research behind ALEKS, forums for the exchange of ideas with other educators, and brief, recorded on-line training segments. To find the resources specific to the educational field you are in, click on the appropriate link on the ALEKS home page.
Chapter 1

Introduction

1.1 What is ALEKS?

The ALEKS system is the product of years of cutting-edge research into the mathematical modeling of human knowledge (Chap. 8). The creators of ALEKS are cognitive scientists, software engineers, and university professors. In designing ALEKS, their goal was to achieve the utmost simplicity of use without compromising the depth, rigor, or richness of instruction at its inspirational best. ALEKS is a tool to empower both instructors and learners. It opens doors into the assessment and representation of knowledge, and it breaks down barriers to success by recognizing the vast diversity of paths that lead to mastery. The ALEKS system can make a radical difference in how learning is experienced.

ALEKS is an online system for the assessment and individualized teaching of a variety of subjects. It can be accessed on the Internet from virtually any computer and is designed to allow the monitoring and management of students and courses at the instructor, college, and system levels.

Based on an accurate profile of the student’s current knowledge, the system is able to offer material that the student is best able to learn at a given time.

The ALEKS Learning Mode includes explanations and algorithmically generated practice problems, ongoing assessment of student knowledge, an online dictionary, and facilities for review and collaborative help. It can be used on an independent basis or as a supplement to classroom instruction.

1.2 The ALEKS Instructor’s Manual

The purpose of the ALEKS Instructor’s Manual is to provide instructors with complete information on the operation of the system. Even though ALEKS is not complex, our goal is to offer instructors a clear idea of everything ALEKS does, how it works, and
where to find answers to questions.

**ALEKS is user-friendly, and may be used without help from the Instructor’s Manual.** Feel free to use the system now. If questions arise, or if you want to learn more about ALEKS, this Instructor’s Manual is intended as a convenient and comprehensive reference.

**NOTE.** For a brief, comprehensive overview of ALEKS, turn directly to the “Frequently Asked Questions” in Chapter 9.

- The first chapters are those most likely to be used by instructors new to ALEKS. Chapter 2, “Quick Start,” contains a concise checklist for those new to ALEKS. Chapter 3, “Setup Guide for Instructors,” provides all of the information necessary for preparing to use ALEKS with one or more courses. This ranges from technical and installation requirements through the students’ first ALEKS session (which typically involves registration, tutorial, the Initial Assessment (or Knowledge Check), and entry into the Learning Mode).
- Chapters 4 through 6 contain descriptions of the principal parts of the ALEKS system: Assessment Mode, Learning Mode, and the Instructor Module.
- The Instructor Module is discussed in Chapter 6.
- Chapter 7 is a brief guide to teaching with ALEKS, describing a range of scenarios and the ALEKS features that support them.
- Chapters 8 through 10 provide additional information that may be necessary or of interest to instructors using ALEKS. Chapter 8, “Knowledge Spaces and the Theory Behind ALEKS,” explains the history of Knowledge Space theory and its fundamental concepts, along with the evolution of ALEKS itself. Also included is a bibliography for those seeking to understand the theory behind ALEKS in greater depth. Chapter 9 provides answers to frequently asked questions about ALEKS. Chapter 10 gives the information necessary for obtaining technical and other support.
- The ALEKS User’s Guide is available to all students from the ALEKS website. The User’s Guide is reproduced here in Appendix A. Unlike the other chapters of the ALEKS Instructor’s Manual, Appendix A is addressed to student users of the system. It covers technical requirements, installation, registration, the Tutorial, and ordinary use of the system, as well as guidelines for effective use and troubleshooting tips. Appendix A can be used by instructors to obtain a brief but complete picture of how the system is used. Appendix B contains content summaries for ALEKS course products.
Chapter 2

Quick Start

The purpose of this chapter is to provide a summary of the steps involved in starting a course with ALEKS.

2.1 Obtaining a Course Code

In order to use ALEKS with your course, you will need to have at least one Course Code. This code should be given to students to use in registration, together with their Student Access Code (below). When they register, they will receive a Login Name and Password. Students should not use the Student Access Code and Course Code to register a second time, as they will not be able to create a new account this way.

You can have as many courses and sections as you need or want in ALEKS. For each course or section, there is one unique Course Code. Students who register using this code will be enrolled in the corresponding course. Students who accidentally enroll in the wrong course can easily be moved to the right one at any time. (Please note that moving a student from one course to another in ALEKS may trigger a new assessment or knowledge check.) To obtain the Course Code for any course, log on to your instructor account, on the Instructor Administration menu, select Class List (Sec. 6.4.30). The Course Code will appear in the right-hand part of the screen.

You will normally be provided with an instructor Login Name and Password by ALEKS Corporation; otherwise, a colleague at your college with administrator privileges in ALEKS can also create an instructor account for you. Once you are logged on to ALEKS as an instructor, you can create one or more courses through selecting New Class.

2.2 Registering Students

Students should use the following steps to register.
CHAPTER 2. QUICK START

1. Go to the ALEKS website.

   https://www.aleks.com

2. Click on the **SIGN UP NOW!** link to the left of the page, under the space for Registered Users. (This is the only time they will click on that button.)

3. On the page that follows, enter the Course Code in the spaces provided for "Using ALEKS with a Course?" (to the left of the window). **Do not use the button on the right-hand side.**

4. Confirm enrollment information.

5. Indicate whether you are a new or an existing ALEKS user.

6. Enter the Student Access Code.

7. Enter other information as prompted and choose a password.

8. Record the Login Name provided by the system.

9. Begin using ALEKS by taking the Student Tutorial and an Initial Assessment (Knowledge Check). Some ALEKS Accounting courses may be setup to allow students to skip the Initial Assessment. For these courses students will begin using ALEKS by taking the Student Tutorial and then start their work in the Learning Mode.

Students will subsequently use their Login Name and Password to enter their accounts.
Chapter 3

Setup Guide for Instructors

3.1 Instructor Preparation

Figure 3.1: The ALEKS Website

ALEKS has been designed to be user-friendly and intuitive. However, taking the time to study all materials provided to you, including the Instructor’s Manual, and trying out the system, can provide valuable insight into the system’s functioning and underlying ideas. The administrator for ALEKS can contact ALEKS Customer Support for assistance at any time (Chap. 10).
3.2 System Requirements

The following table presents the system requirements for ALEKS in summary form.

<table>
<thead>
<tr>
<th></th>
<th>PC</th>
<th>Macintosh</th>
<th>Chromebook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Windows 7+</td>
<td>MacOS 10.7+</td>
<td>Chrome OS</td>
</tr>
<tr>
<td>Processor</td>
<td>Any</td>
<td>Any</td>
<td>Any</td>
</tr>
<tr>
<td>RAM Memory</td>
<td>64+ MB</td>
<td>64+ MB</td>
<td>Any</td>
</tr>
<tr>
<td>Browser</td>
<td>Explorer 11+, Firefox 25+, Chrome 30+</td>
<td>Safari 6+, Firefox 25+, Chrome 30+</td>
<td>Chrome 30+</td>
</tr>
<tr>
<td>Screen Resolution</td>
<td>1024x768</td>
<td>1024x768</td>
<td>Any</td>
</tr>
</tbody>
</table>

Figure 3.2: System Requirements

Note that any kind of Internet connection (cable, ISDN, DSL, or wireless) usually available in a computer lab is adequate for use with ALEKS.

3.3 Instructor Module

To enter the ALEKS Instructor Module, log on to ALEKS with your Instructor Login Name and Password. The Instructor Module lets you monitor and manage your ALEKS courses. The Instructor Module is designed for ease of use; it guides users through the steps needed to accomplish tasks in such a way that no separate training is needed and mistakes or confusion are unlikely. See Chapter 6 for a complete description of the Instructor Module.

3.4 Student Orientation

It is strongly recommended that the first ALEKS session be conducted under supervision, perhaps with another instructor on hand, to help your students get started. It is not generally necessary to schedule a separate orientation meeting before the students begin using the system. Students can access the ALEKS User’s Guide from the ALEKS website. Encourage students to familiarize themselves with this brief guide. You should remind your students to bring their Student Access Code to the first session of class. It is also advisable for students to have pencil and paper for assessments (knowledge checks) in ALEKS. A calculator is included in ALEKS when needed. Remind your students that help is not permitted during the assessment, because this will impair the accuracy of the results, and consequently hinder that student’s progress in the Learning Mode.

If possible, the students’ first session with ALEKS should allow them to complete their knowledge checks (assessments) and begin work in the Learning Mode. If the students
are unable to finish their assessments during this time, ALEKS will automatically keep
their place. The next time the students log on to ALEKS they may continue without
any loss of work.

3.5 Registration

Students register with ALEKS by going to the ALEKS website and clicking on SIGN
UP NOW! This will be expedited if the browsers used by the students have Book-
marks or Favorites pointing to the website.

NOTE. In order to register, all students must have both their Student Access Code and
the Course Code for the course that you are teaching. The Course Code will either be
sent to you by ALEKS Corporation (in your ALEKS Inbox), or be obtained when you
create the course (Sec. 6.4.1). You are responsible for giving this code to the students
at the time of the first session (Sec. 2.1).

The student registration process is described in detail in the User’s Guide (Appendix A).
There are complete online instructions for every step of this simple procedure. Among
other information, students can supply their Student ID number (if you wish to have
this in the system). Special care should be taken in entering the latter, as the system
cannot detect mistyping. The Student ID is optional information.

Near the conclusion of Registration students receive a Login Name and choose a Pass-
word. These should be noted carefully, as they will be essential for all further work
with ALEKS. Students should choose a password they will remember easily but that
will be hard for others to guess. Login Name and Password can be typed with upper
or lower-case letters. Neither may contain spaces or punctuation. The Password must
contain at least 6 characters.

3.6 Tutorial

Following Registration, the students enter a brief tutorial on the use of ALEKS input
tools, also called the Answer Editor Tutorial (Sec. 4.5). There are separate tutorials
for different subjects, since the specific tools for them differ somewhat. The ALEKS
Tutorial provides ample feedback to ensure that students complete it successfully.

NOTE. The tutorial is not intended to teach accounting knowledge, but rather to
train students in using the system tools. If students need a “refresher” on the use of
the system tools, it is always possible to click on the “Help” button, which gives access
to the sections of the tutorial (Sec. 5.2.14).
3.7 First Assessment

Immediately after the tutorial, students proceed to their Initial Assessment or Knowledge Check (Chap. 4). The Initial Assessment may be optional in some ALEKS Accounting courses based on the course settings. Students with prior knowledge of accounting may wish to take the assessment in order to begin their work with appropriate material. To reiterate, no help of any kind should be given to students being assessed, not even rephrasing a problem. It is also advisable for students to have pencil and paper for assessments in ALEKS. A calculator is included in ALEKS when needed.

The ALEKS assessment is adaptive and variable in length. Consistency of effort and concentration may influence the length of an assessment.

3.8 Report Tutorial

At the conclusion of the Initial Knowledge Check (Assessment), the student is given a brief tutorial on how to interpret the Assessment Report.

3.9 Beginning the Learning Mode

Students enter the Learning Mode by clicking on one of the topics they are ready to learn. If at all possible, the students should be given sufficient time in their first ALEKS session to use the Learning Mode and begin to add concepts to their pie. If they have this experience, their interest in using ALEKS will be more favorable. You should also be present to answer questions regarding the Learning Mode and to help your students familiarize themselves with its varied features. This is particularly important for when they will have to use ALEKS unsupervised.
Chapter 4

Assessment Mode

In Accounting, the flexibility with which students can learn material in ALEKS and with which instructors can structure their courses has been maximized. The role of assessments (also called knowledge checks) is limited, and assessment behavior varies between Financial Accounting and Accounting Cycle courses. These differences will be outlined in this chapter.

4.1 Assessments in ALEKS

The ALEKS assessment (knowledge check) uses open-ended problems. The assessment uses adaptive questioning, so that problem types are selected based on all the previous answers the student has given. It is impossible to predict which types of problems will appear, or in what order. Moreover, the problems themselves are generated algorithmically, with randomly-selected values (as is the case also in the Learning Mode). Consequently, students cannot “learn the assessment,” teachers are unable to “teach to the assessment,” and some types of cheating are impossible. In the unlikely event that two students sitting next to one another were given the same problem-type at the same time, the problem parameters and values would be different, and so would the correct answer. Certain assessments should be supervised, however, such as the first, midterm, and final assessments in a course. Without supervision, students could use a textbook, receive systematic help, or have someone else take the assessment in their place. (There is no reason for a student who has begun using ALEKS to cheat on a “progress” assessment, as this will simply cause the system to suggest problems that are too difficult, and thus hinder the student’s own work.)

The student may be given an Initial Assessment immediately following completion of the ALEKS Tutorial (Sec. 3.7). The student is clearly informed that the assessment (knowledge check) is beginning. Next, a series of problems is posed to the student. The student provides the solution to each problem using the Answer Editor (or clicks I don’t know). In Assessment Mode, the system does not inform the student whether
their answer is correct or incorrect. The assessment continues until the system has
determined the student’s precise knowledge of the course materials, at which time the
assessment ends and a report is presented to the student. The number of questions asked
cannot be known in advance, although consistent effort and attention may contribute
to shorter assessments.

4.2 Guidelines for Assessments

ALEKS assessments are an important part of the ALEKS program. It is essential that
assessments be conducted according to certain guidelines. If there is an atmosphere
permitting disturbances or distractions, students may not do their best. If assessment
results are inaccurate, the system will give the student inappropriate problems and
progress will initially be impaired. The system will recover and find the right level,
but the student may still experience a degree of frustration. In order to avoid this,
it is strongly recommended that the first assessment be taken under the instructor’s
supervision (Sec. 3.7).

All students being assessed need paper and pencil. A basic calculator is part of ALEKS,
and will be available when appropriate. It is important that no assistance be given to
the student. Explaining or rephrasing a problem should be avoided; this is considered
inappropriate help. Students should be instructed to use the I don’t know button
only when they are completely unfamiliar with the topic. It is not possible to return to
previous assessment questions. Students should not click their browser’s Back
or Forward buttons when using ALEKS.

4.3 How Assessments are Triggered

All ALEKS knowledge checks (assessments) work in much the same way, though they
are triggered for different reasons, as explained in the following sections.

4.3.1 Initial Assessment

The Initial Assessment may take place at the outset of a student’s use of ALEKS,
immediately after Registration and the ALEKS Tutorial (Sec. 3.7). We strongly recom-
mend that students take this Initial Assessment in a supervised computer lab setting,
to ensure that they do not receive help or collaborate. In creating or editing a course
account, the instructor can stipulate that the Initial Assessment be allowed only from
school (Sec. 6.4.21).

The Initial Assessment in Financial Accounting is optional and can be skipped by the
student, unless the instructor chooses to require it. Conversely, the Initial Assessment in
Accounting Cycle is required, unless the instructor chooses to make it optional. These
4.3. HOW ASSESSMENTS ARE TRIGGERED

settings can be viewed/edited in the “Class Options” menu in ALEKS (Sec. 6.4.17). Students with prior knowledge of accounting may wish to take the Initial Assessment, so that they can move directly into material that is relevant to them.

4.3.2 Automatic Assessments

Additional assessments (knowledge checks) after the Initial Assessment are triggered automatically by the system based on the student’s rate of progress and on the amount of time the student has spent working in ALEKS. ALEKS may trigger the following automatic assessments:

Progress Assessment
when the student has mastered approximately 20 topics in the Learning Mode and spent at least 5 hours working in ALEKS since the last assessment.

Login Time Assessment
when the student has spent 10 hours working in the Learning Mode since the last assessment.

Periodic Assessment
when 60 days have passed since the last assessment.

Objective Completion Assessment
when the student completes the material of a textbook chapter or objective or reaches the assigned Mastery Level (Sec. 6.4.6).

Goal Completion Assessment
when the student has completed the final topic of the pie chart. If the assessment does not confirm the student’s mastery of the course materials, the student will return to the Learning Mode. Consequently, more than one Goal Completion Assessment is possible, but ALEKS will not reassess the student if a only small number of topics need to be relearned.

These are all Progress-style assessments. Some modification of the parameters given above is possible; contact ALEKS Corporation Customer Support for assistance if you would like to adjust them.

Financial Accounting courses do not have any automatic assessments enabled by default. If the instructor chooses to enable Progress Assessments, this will also enable Goal Completion Assessments (Sec. 6.4.17). Please note that for Financial Accounting, a Progress Assessment will be triggered only by the number of topics mastered by the student. The time spent in ALEKS component outlined above does not apply.

Accounting Cycle courses have all of the above-listed assessments enabled.

Note that a Progress, Login Time, or Periodic Assessment (Knowledge Check) “resets the clock,” so that assessments do not occur one on top of another. In general, ALEKS will avoid triggering unnecessary re-assessments.
CHAPTER 4. ASSESSMENT MODE

Progress made by the student through the Learning Mode, or as the result of an assessment, periodically updates the list of available topics, displaying a new pie chart and new choices of concepts the student is “ready to learn.” The automatic assessments check the students’ retention of recently learned material, and may also include topics the student is ready to learn.

NOTE. Automatic assessments may be postponed due to a scheduled assignment. This occurs when the assignment has the Prevent automatic assessments box checked (Sec. 6.5.6). Also, to avoid the over-assessment of students, all automatic assessments will be prevented for students with 10 or fewer items remaining in an Objective or in the 48 hours preceding the Objective end date.

For Objectives without end dates, automatic assessments will be prevented for students with 10 or fewer items remaining to complete the current Objective, regardless of the mastery levels set (Sec. 6.4.6).

4.3.3 Scheduled Assessments

To schedule an assessment for the entire course or for specific students, select a course, click on the Assignments tab, then again on Assignments, and then select Scheduled Assessment under New Assignment. For example, the instructor, department, or college may wish to have “midterm” assessments under supervision to guarantee reliable results. They have the option of selecting the style of assessment as Progress or Comprehensive. Progress Assessments are slightly shorter and focus on the student’s most recent learning history; Comprehensive Assessments are slightly longer and probe more deeply into the student’s overall knowledge of the course content.

In Financial Accounting courses the style of assessment scheduled will be Comprehensive, unless automatic assessments have been enabled (Sec. 6.4.17).

ALEKS allows the instructor to choose the availability of Scheduled Assessments by specifying a beginning and ending date and time and how students access that assessment when it becomes available. Also among the options for a Scheduled Assessment is one to prevent automatic assessments within a certain number of days prior to the Scheduled Assessment. Note that any assessment scheduled by the instructor “resets the clock” for automatic assessments, so that students will not be assessed too frequently.

For additional information about Scheduled Assessments, see Sec. 6.5.9.

4.3.4 Requested Assessments for a Single Student

As an instructor, you can also request an assessment for a single student. To do this, select the student, and then on the Assignments menu, select Request Assessment. When a Requested Assessment is triggered, the assessment will take place immediately the next time the student logs in (compared to the Scheduled Assessment, where the student is only prompted to take the assessment after the date or time specified by
the instructor). Like the Scheduled Assessment, a Requested Assessment for a single student “resets the clock” for automatic assessments. The results of this assessment will not be included in the Gradebook.

The style of a Requested Assessment can also be set to Progress or Comprehensive. Progress Assessments are slightly shorter and focus on the student’s most recent learning history; Comprehensive Assessments are slightly longer and probe more deeply into the student’s overall knowledge of the course content.

In Financial Accounting courses the style of assessment requested will be Comprehensive, unless automatic assessments have been enabled (Sec. 6.4.17).

For additional information about Requested Assessments, see Sec. 6.7.9.

4.4 Buttons

The Assessment Mode (Fig. 4.1) has a reduced set of active menu buttons. The student being assessed is able to leave the system by clicking on their name (top right) followed by Log out. Other buttons may appear, but they are disabled. All of the ALEKS menu buttons are enabled in the Learning Mode (Sec. 5.2).

The two aspects of the ALEKS interface relevant to work in the Assessment Mode are the Answer Editor and the Assessment Report (Sec. 4.7).

4.5 Answer Editor

Figure 4.1: The Answer Editor for Accounting (Assessment)

Input to the ALEKS system is always in the form of proper expressions and constructions. A critical reason for this is to check students’ knowledge accurately.
The general term for the input tools used in ALEKS is the Answer Editor. A student beginning to use ALEKS is trained in how to use the features of the Answer Editor that are relevant to the subject (Sec. 3.6). Also, context-sensitive help is available on use of Answer Editor through the Help button at the top of the student interface.

In much of what follows, emphasis is on the Answer Editor for Accounting, including its facilities for drag-and-drop, pull-down menus, and so forth.

4.6 The Answer Editor for Accounting

4.6.1 Journal Entries

![The Answer Editor for Journal Entries](image)

Figure 4.2: The Answer Editor for Journal Entries

The journal entry form is perhaps the richest of the ALEKS tools for accounting. It allows the flexible construction of journal entries of arbitrary length and complexity. Values produced in the calculator can be dragged and dropped into cells; where appropriate for the type of problem, it will calculate values for some cells automatically based on what has been entered.

Descriptions are entered in the appropriate columns by drop-down menus; selections can be made easily from these menus with the mouse, or by typing the first letters of the desired value. Finalize a value by pressing Enter; move between cells by clicking or by pressing Tab. To add a new line in between two lines of the journal, use the “+” symbol at the right-hand margin; to remove a line, use the “x” symbol.

When the user is first introduced to journal entries in the ALEKS tutorial, an especially careful guided tour is provided to ensure that subsequent use of this important tool is problem-free.
4.6.2 Financial Statements

The facilities for creation of financial statements in ALEKS resemble those used for journal entries, but the overall format is adapted for this different use.

4.7 Assessment Report

At the conclusion of an assessment (knowledge check), the system presents the Assessment Report. The interpretation of this report is the same as for pie chart displays found in other places within ALEKS (such as in MyPie). The standard report format is used for all assessment reports (Fig. 4.4).

4.7.1 Interpreting the Pie Chart

A pie chart expresses the results of a given assessment. It contains the following types of information:

- The topics included in the module.
- The relative size of the parts of the module.
- To what extent the student has mastered each part of the module, according to the assessment results.

Each color-coded slice of the pie chart refers to a particular part of the module, such as Merchandising Accounting or Closing Process and Financial Statements.
The portion of the chart taken up by any one area (slice) reflects the size of that area relative to others in the given module.

The degree to which each slice is filled by darker color shows the extent to which the student has mastered that area.

By placing the pointer over one of the slices of the pie chart, the slice expands out of the pie, displaying a list of concepts the student is currently ready to learn. Not every slice necessarily contains such a list, even if the slice has not yet been fully mastered. This is because a student may not be ready to learn a concept in a given slice before concepts in another slice have been mastered. Clicking on any one of these concepts takes the user into the Learning Mode to begin working on that concept.

### 4.8 Ready to Learn

The concepts given as most ready to learn do not represent a casual selection of concepts that the student has not yet mastered. By resuming study with one of these concepts, the student is following the most efficient path to mastery of the complete course (Chap. 8).

### 4.9 Progress Bars

Another graphic expression of the student’s progress is given by the bar graphs at the bottom of the report (History). These represent the general extent of the student’s mastery:

- The blue portion of each bar represents material that was learned as of the given assessment.
4.9. **PROGRESS BARS**

- The green portion represents material mastered in the Learning Mode since that assessment.
- The yellow portion represents material belonging to the curriculum for the given level that has yet to be learned.

When the bar is entirely blue, or a combination of blue and green, the student has completed the curriculum for that course.
Chapter 5

Learning Mode

5.1 The ALEKS Learning Mode

The purpose of the Learning Mode is to assist students in mastering concepts. Students using ALEKS choose which concepts they wish to work on from the pool of available topics in the pie slices. This list of available topics is constantly being updated through progress made by the student in Learning Mode or as the result of an assessment. As students are only presented with material the system has determined they are most ready to learn, the benefit of their work is maximized.

In the Learning Mode students always work on one concept at a time. The Learning Mode provides students with a rich array of resources to help in mastering concepts. This includes explanations, references to a textbook if one has been integrated with ALEKS, links to supplemental tutorial material and interactive applications, practice problems, diagnostic feedback on problem solutions, and access to a student dictionary. Moreover, the Learning Mode is designed to monitor the progress made by students toward mastery of a given concept and advise them on continuing or changing concepts. A student is required to solve an appropriate number of practice problems correctly before the system will conclude that the concept has been mastered. (If the student makes mistakes, additional practice will be required.) Once the concept has been mastered, the student is encouraged to choose a new concept from the (updated) pie chart, but more practice is available if desired.

If the student has difficulty, the system may suggest that the student pay closer attention to the explanations. A new selection may also be encouraged. The student continues to work in the Learning Mode until a new assessment is triggered, either by the instructor or automatically. Automatic assessments are triggered when the student has either spent a certain amount of time in ALEKS or made a certain amount of progress since the last assessment (Sec. 4.3.2). In Financial Accounting there will be no Progress Assessments unless the instructor enables them for the course.
5.2 Interface Features

The features of the Learning Mode interface allow the student to edit personal information related to their account, view reports and gradebook information, and access helpful tools such as the ALEKS Dictionary, Calculator, and Review.

Students also have the ability to print certain screens in ALEKS. The Print feature will be available when the student generates a worksheet, views their reports, or utilizes the Explain page in Learning Mode. More detailed explanations of these options can be found below.

5.2.1 Ending an ALEKS Session

Students can end a session with ALEKS in two ways: click on their name (top right), followed by Logout, or simply close the browser window. Also, if no input is supplied to the system for 30 minutes, the session is terminated automatically. Whichever way you exit, the system will return you to the same place when you next log in to ALEKS.

5.2.2 Resources

Students can access these resources through the Resources page and/or Explain pages of ALEKS based on the accessibility options selected by the instructor. For more details on Resources, see Sec. 6.4.26.

5.2.3 Options

The Options link in ALEKS contains user and course information specific to the student. The student can view their ALEKS Reference account and Email address.
The **Report** link connects the student to a menu of all assessment reports (Sec. 5.2.4). The **History** link displays a list of concepts the student has worked on recently, indicating the level of mastery achieved and providing the opportunity to return to that concept for further practice (see also Review, Sec. 5.2.7).

The **Options** page includes the time the student has currently spent in the ALEKS course. Subscription information is displayed, including the beginning and expiration dates of the account (Fig. 5.1). To return to Learning Mode, click on the **Done** button.

### 5.2.4 Report

Clicking on the **Report** link displays a drop-down menu of all past assessments and time(s) in Learning Mode. Any assessment or learning mode session can be selected (by date) from the menu. Click **OK** to see the results. The results will include the following:

- Pie Chart that graphically displays the student’s progress.
- Topics Recently Learned.
- Topics Ready to Learn.
- Topics the Student Should Try Again (these topics are also the Topics Lost in Recent Assessment).
- Progress Bar Graphs (Sec. 4.9).

The student also has the Time and Topic Report available under their **Report** link. This report displays the amount of time spent each day in ALEKS as well as the topics the student has attempted and mastered each day. (The number of topics attempted does not include topics the student worked on in Review mode.) To return to Learning Mode, click on the **Done** button.

### 5.2.5 Dictionary

The online dictionary provides scientific and mathematical terms and definitions used in the course. Clicking on the **Dictionary** button produces a new browser window tab, with a list of section(s) correlated to the pie chart. Students can also access the Dictionary by clicking on underlined words (hypertext links) anywhere in the Learning Mode. Click on any section(s) to access the definition of terms used in that section. Dictionary definitions are designed to present concepts in their simplest form first, moving into greater depth as the definition proceeds (Fig. 5.2).

The Dictionary screen also includes a text entry field to quickly search for key terms and a link to access the Complete Mathematics Dictionary. Selecting the **Complete**
CHAPTER 5. LEARNING MODE

5.2.6 Calculator

The Calculator button is available for topics where ALEKS permits use of a calculator. Click on this button to use the online calculator.

5.2.7 Review

The Review button gives a list of concepts the student has recently mastered in the Learning Mode or Assessment. The Click here for more review link gives a comprehensive list of all topics mastered by the student. For more information see Sec. 5.5.

5.2.8 Course Forum

The student can access the Course Forum (when it has been enabled by the instructor) by clicking on the Course Forum button. For more information see Sec. 6.4.34.

5.2.9 Gradebook

The student can access the Gradebook for the course by clicking on the Gradebook button. For more information see Sec. 6.4.25.
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5.2.10 Calendar

The student can access the Calendar for the course by clicking on the Calendar button. For more information see Sec. 6.4.35.

5.2.11 Worksheet

The student may obtain an individualized, printable homework sheet by clicking Worksheet. The questions on the worksheet are based on the student’s most recent work in ALEKS. For more information see Sec. 5.6.

5.2.12 Assignments

The student can complete an assignment (Homework, Quiz, Test, or Scheduled Assessment) assigned by the instructor or check the results of assignments by clicking on the Assignments button. If assignments are currently available, the student will see an orange burst on the Assignments button. If the assignment has been scheduled by the instructor, so that the student must begin the assignment as soon as it becomes available, the student will be “forced” into the assignment on login to ALEKS (Sec. 6.5).

5.2.13 Inbox

The Inbox allows the student to send messages to the instructor requesting assistance with a topic in ALEKS, help with a specific problem, or for other purposes. The student can compose a message by clicking on Compose. It is possible to include mathematical notation and illustrations in the message as follows:

1. Click the “math” symbol at the right end of the tool bar. This will switch the user into the “Enhanced message editor,” with its robust set of math tools.
2. Click the Graphs tab for graphing tools, or on Algebra, Trig, Matrix, or Stat for symbolism specific to these areas.

While working in the Learning Mode, the student can send a specific problem type they are working on to their instructor. This message will contain a link to a screenshot of the practice problem. With the practice problem on the screen, the specific problem may be attached to the email as follows:

1. Click on the Inbox link. This will take you into the ALEKS Message Center.
2. Click on the Compose button.
3. Below the body message section, check the box next to “Attach Page.”

4. Click on the **Send** button to send the message.

It is possible to include attachments up to 2MB in size (Sec. 6.2.2). It is also possible to send messages directly to ALEKS Corporation. Click on **Done** to return to the Learning Mode.

### 5.2.14 Help

![Help Menu](image)

The **Help** button in the Assessment and Learning Modes provides detailed assistance with use of the Answer Editor (Fig. 5.3). The Help Menu contains a list of questions on how to use the various icons of the Answer Editor; clicking on one of the items will take you through a brief tutorial on the use of the icon. The “Help” screen includes a link to the ALEKS User’s Guide.

### 5.2.15 MyPie

Clicking on **MyPie** produces a pie chart display reflecting the current state of the student’s mastery in the Learning Mode (Sec. 4.7). The student can use this button to select a new concept to work on from among those currently most “ready to learn.”
5.3 The Learning Mode Workflow

The ALEKS Learning Mode allows students to practice topics they are ready to learn. When students successfully solve a series of problems of the same type, ALEKS will add this problem type or “topic” to the student’s pie chart. If a student experiences difficulty with a topic, ALEKS will attempt to help the student in several ways. Students receive immediate feedback on their answers. Examples of how to solve the problems will be displayed on the “Explain” pages. The “Explain” pages link to definitions of terms and a comprehensive dictionary.

5.3.1 Practice Page

Clicking on the name of a topic from the student’s pie chart will display a page containing an instance of the problem, followed by the Answer Editor. This is where a solution to the problem can be attempted (Fig. 5.4). All practice problems are generated by algorithms, with randomly selected parameters so that the variety of problem instances for any topic is very high.

Below the Answer Editor are buttons labeled Next and Explain. Clicking on Next has the same effect as described for the Assessment Mode; it submits the answer. Here, however, the user is given immediate feedback on their answer (Sec. 5.4). If correct, the student will receive a congratulatory message.

Next, a new problem is presented. In the case where the topic is considered mastered, the student will receive two options; the student can choose to click Done to move on to a different topic, or they can click More Practice to practice the topic further.
When the student enters an incorrect answer, ALEKS will return the presentation of the original problem with feedback on the student’s error. Students can then click the **Explain** button.

### 5.3.2 Explanation Page

![Normal account balances](image)

To find the normal balance of an account, let’s start with the basic accounting equation:

\[
\text{Assets} = \text{Liabilities} + \text{Stockholders' equity}
\]

Accounts pertaining to the left side of the equation (Assets) have normally a debit balance. Accounts pertaining to the right side of the equation (Liabilities and Stockholders' equity) have normally a credit balance.

Here again, accounting terms are linked to dictionary definitions. The system may suggest looking up certain key terms to help with the explanation (especially if the explanation has already been visited). At the bottom of the page is the **Practice** button. Clicking on this button produces a new instance of the same problem-type. Sometimes there may also be a button for **Additional Explanation** or **Detailed Explanation**. You can also return to the pie chart to choose a different topic by clicking on the **MyPie** icon.

The Explanation Page (Fig. 5.5) begins with the title of the current item and an instance of that item. The answer to the problem is given at the end of the explanation.

When ALEKS is used with textbook integration, a reference will appear at the bottom of the Explanation Page showing the chapter and section of the textbook where additional information about the concept may be found (Sec. 6.4.4). Additional tutorial material and interactive applications may also be found through links at the bottom of the Explanation Page.
5.3.3 Wrong Answer Page

The Wrong Answer Page will appear only after an incorrect answer has been submitted on the practice page (Fig. 5.6). The system may explain why the answer is incorrect and offer advice on the error. Underlined words (hypertext links) may also appear on the screen for students to look up in the Dictionary.

The old, incorrect answer appears in the Answer Editor, where it can be corrected and resubmitted. Again, clicking on Explain is an option that leads to an explanation of the problem. Please note that the system may also take the student directly to the “Explain” page if an item has been missed too many times.

5.4 Feedback in Learning Mode

In the Learning Mode, feedback is integrated into a sophisticated system of guidance for the student. Some errors prompt ALEKS to give specific hints and suggestions (Fig. 5.6). For example, it may say that one of the journal entries is incomplete. After a correct answer, the system will ask a limited number of questions for the same concept before judging that it has been mastered. If an item is missed too many times, however, a new topic will be suggested. If a concept has been left without mastery being attained, the system may suggest returning to it after one or two other topics have been covered.
5.5 Review

A student using ALEKS can review topics recently mastered in the Learning Mode or Assessment by using the **Review** button (Fig. 5.7). Clicking on any of these topics provides the chance for additional practice; this is particularly useful when the student knows that a new assessment (knowledge check) is imminent.

**Click here for more review** gives a comprehensive list of topics mastered by the student. ALEKS will periodically offer a student the option of reviewing past material at the time of login. The student can select a topic to review from these recently mastered topics. Clicking on the **Done** button will return the student to the Learning Mode.

In Review, a student can sort course topics either by “Objectives View” or by “ALEKS View.” “Objectives View” organizes topics based on the textbook integration or intermediate objectives set up by the instructor. “ALEKS View” organizes topics based on the pie slices.

**NOTE.** Work done in Review mode does not affect the student’s pie chart or progress records.

5.6 Worksheet

Clicking the **Worksheet** button generates an individualized, printable homework sheet (in PDF format) containing a number of questions based on the student’s most recent work in ALEKS (Fig. 5.8). When the student does this, a sheet containing answers
for this individual worksheet (labeled with the student’s name and the date) is sent to the instructor via the ALEKS message system (Sec. 6.2.2). The instructor may permit students access to their worksheet answers.

A record will be kept on the Worksheet page of all worksheets produced by the student. The student can click on the link for any past worksheet in order to obtain that worksheet again. If the instructor has permitted access to worksheet answers, there will also be links on this page to answer keys for each of the worksheets.

NOTE. In order to view or print documents in PDF format, such as the ALEKS worksheet, Adobe Acrobat or Adobe Acrobat Reader must be installed on your computer. Most computers have this software. If for any reason your computer does not, there is a link on the ALEKS Worksheet page to download it. Also, because the worksheet is opened in a new browser window, it may be necessary to disable your pop-up blocker temporarily in order to view or print the ALEKS worksheet.
Chapter 6

Instructor Module

The ALEKS Instructor Module features a streamlined interface, based around a system of organizational levels and dynamic dashboard tiles. The Instructor Module makes course management simple, and allows instructors to spend less time with administrative tasks and more time directing student learning.

6.1 Navigation

There are several ways to navigate the Instructor Module. They include using the search box, main navigation, sub-navigation, or the dashboard. These navigation techniques are described below.
6.1.1 Search Box

The search box can be found at the top of any page in the Instructor Module (Fig. 6.2). It can be used to search all pages in the Instructor Module with the exception of the ALEKS Community and the Course Forum. To search for a course, student, or assignment type in a search query and then select the Enter key. Alternatively, you can type in a search query and then click the search icon next to the search box.

6.1.2 Main Navigation

Instructors have access to a two-level hierarchy: class and student (Fig. 6.3). The navigation structure is tab-driven for easy navigation and starts with the CLASS tab on the left. This tab contains all courses taught by the instructor.

Instructors begin by opening the drop-down menu and selecting a course, or by typing into the open box to bring up matches from the menu.

Once a course is selected, the CLASS tab becomes the active tab (current level in the hierarchy), and instructors have access to course-related menus and the course dashboard.

Instructors can remain at the course level or make a selection in the STUDENT tab to move down to that level. The STUDENT tab contains all the students enrolled in the selected course. As with the CLASS tab, selections can be made by clicking on a student’s name or by typing in the search field to bring up a match. After selecting a student, instructors will have access to student-related menus and that specific student’s dashboard.

6.1.3 Sub-Navigation

The sub-Navigation displays menus related to the selected item in the main navigation (course or student) (Fig. 6.4). To return to the tab level, click on the top of the appropriate tab to make it active again.
6.1. Navigation

6.1.4 Dashboard

The Dashboard displays quick overviews of important data applicable to the level currently selected (Fig. 6.5). Each Dashboard consists of dynamic tiles that update when the Dashboard is opened. The Dashboard displays six tiles at a time; additional tiles can be found by clicking the navigational arrow button to the right or left of the Dashboard. The display order of the dashboard tiles can be changed by moving the tiles around on the screen.

To rearrange dashboard tiles on a tablet:

1. Press and hold your finger on the tablet screen over the title of the dashboard tile.
2. Drag the tile to the desired location.
3. Remove your finger from the screen to drop the tile in place. The rest of the tiles will automatically update their position relative to the moved tile.
To rearrange dashboard tiles on a computer or laptop:

1. Move the mouse over the title of the dashboard tile.
2. Click and hold. You will see the tile become slightly larger.
3. Move the tile to the desired location.
4. Unclick the mouse to drop the tile in place. The rest of the tiles will automatically update their position relative to the moved tile.

Many of the dashboard tiles are interactive. For example, moving the mouse around the pie chart on the ALEKS Pie Mastery dashboard tile will display the mastery levels for that particular slice. Additionally, many tiles will have links to other areas of the Instructor Module, including Reports, Course Summary, and the ALEKS Gradebook, to name a few.

You can return to the Dashboard for the level currently selected at any time by clicking the Dashboard Button to the left of the sub-navigation.

6.1.5 Home Button

The Home button, located to the left of the main navigation windows, can be used at any time to return to the home screen for the currently active account.

6.2 Instructor Account

![Account Drop-Down Menu](image)

Figure 6.6: Account Drop-Down Menu

Account settings and helpful resources can be found in the Instructor account drop-down menu by clicking on your name in the upper right corner of the Instructor Module home page (Fig. 6.6). Details for each option are given below.
6.2. INSTRUCTOR ACCOUNT

6.2.1 Account Settings

The **Account Summary** page contains your account settings, contact information, and email preferences (Fig. 6.7). You can access this screen by selecting **Settings** from the account drop-down, or by clicking **Account Summary** under Instructor Administration on the main page.

6.2.2 Message Center

![Message Center](image)

Figure 6.8: Message Center
The **ALEKS Message Center** is where messages can be sent from instructor to student and to ALEKS Customer Support (Fig. 6.8). This is also where you will find messages sent to you by your students. The message center can be accessed by clicking on the envelope icon next to the search box, or by selecting Message Center from the instructor account drop-down menu.

The Message Center resembles an email program in most of its features, although the exchange of messages takes place within the ALEKS system. Also, the Message Center is equipped with special symbols and tools appropriate to communication about subject matter used in ALEKS.

The Message Center contains a full range of tools for using mathematical symbolism, constructions, and expressions in your messages. The tools are like those used in ALEKS itself in the Answer Editor. Moreover, students sending you messages in the Message Center can attach a graphic representation of the problem they are currently working on, to facilitate discussion of mathematical questions.

To compose a new message, click on the **Compose** button. After clicking on the appropriate “To:,” “Cc:,” or “Bcc:” button, use the expandable folder list to select the recipient(s) of the message. As with traditional email programs, messages can be saved as drafts for later editing, they can be marked as urgent, and attachments can be included (up to 2 MB in size).

To check for new messages received while the ALEKS Message Center is open, you can click on the **Check Inbox** button to refresh the inbox.

### 6.2.3 Reference Guides

The following online documents are accessible directly from the ALEKS instructor and administrator account drop-down menu:

- **Quick Start Guide** outlines the most important features and functions within ALEKS so instructors can easily began working in ALEKS.
- **New SM Reference Guide** provides an overview of the new Student Module and its features.

### 6.2.4 Customer Support

Clicking on **Customer Support** in the instructor or administrator account drop-down menu opens an ALEKS customer support form.
6.2.5 Training & Resources

Training & Resources in the instructor or administrator account drop-down menu opens a window to the Training and Resources section on the ALEKS website. You can schedule a training session with an ALEKS specialist, register for an upcoming ALEKS overview session, and view On-demand videos of popular ALEKS features and tasks.

6.2.6 Log Out

To end your ALEKS session, select Log Out from the account drop-down, or simply close your browser window.

6.2.7 Community

The ALEKS Community is an online community where instructors can share ideas and discuss best practices with ALEKS colleagues (Fig. 6.9). All ALEKS educators are members of the ALEKS Community and can post new topics or comment on existing discussions.

6.2.8 Feedback

Feedback allows you to send feedback to ALEKS regarding the Instructor Module.

6.2.9 Student Roster (Instructor Level)

From the Instructor Administration, instructors can access the ALEKS Student Roster for all students that are registered in courses under their account (Fig. 6.10). Instructors can use the following filters to display various groups of students:

Active

All students currently in the class are tagged as active and displayed by default.
CHAPTER 6. INSTRUCTOR MODULE

Figure 6.10: Student Roster (Instructor Level)

Former

Students are tagged with this status when they were in this class and have moved out of the class into another class, but their records still appear in this class.

Hidden

These students are hidden from reports and drop-down menus.

Old Classes (available only at Instructor level)

Students who were in a class that is inactive or archived.

The default roster settings will display information for Active students. Instructors can use the Course Roster to view students information in a selected course (Sec. 6.4.32). ALEKS administrators have access to the institution Student Roster to view all students registered at the school (Sec. 6.8.8).

6.3 Reports

Figure 6.11: Reporting
The Report menu displays the ALEKS reports that are available for the current course. Each report is represented by an icon (Fig. 6.11). Instructors can access the Reports by selecting a course and clicking on the desired report in the Reports menu.

### 6.3.1 Available Reports

ALEKS offers a wide range of dynamic, automated reports that display individual student and course data. Instructors can use these reports to track usage, progress, grading, and attendance. The reports are organized by the following report types:

- ALEKS Pie (Sec. 6.3.6)
- Progress (Sec. 6.3.10)
- Time and Topic (Sec. 6.3.17)
- Knowledge Per Slice (Sec. 6.3.20)
- Assignments (Sec. 6.3.21)
- Custom Reports (Sec. 6.3.24)

**NOTE.** The report icons will not appear on the Reports menu when they are not applicable to the course.

To run a course report, select the Course from the dropdown list. To run an individual student report after selecting a Course, select a student, then select the desired report from the Reports menu.

### 6.3.2 Download Report Data

Reporting data can be printed or downloaded from any of the report styles. Use the printing options in your browser. To download a report, use the link marked **Download Excel Spreadsheet** on the upper right side of the report. Or, locate **Download**, click on the down arrow, and then select **XLS**.

### 6.3.3 Send Message to Selected Students

Instructors can send messages to selected students from within most course reports, the course roster, and the Gradebook as follows:

- To select specific students, click on the numbered icon or checkbox next to students’ names. The icons will change from grey to yellow, while the checkbox will contain a mark. Re-clicking on the icon or checkbox will deselect the student.
- By clicking on **All** or the checkbox next to **Name**, instructors can select all students in the list.
• Clicking on the Send Message to Selected Students link or Send Msg icon opens a message in the ALEKS Inbox. The students’ names will be pre-filled in the “Bcc” field of the email message (thus recipients of a group message do not know who the other recipients are).

6.3.4 Viewing Student History Across Multiple ALEKS courses

This feature allows administrators and instructors to view student history across multiple ALEKS courses. The comprehensive view can be used to identify each student’s progress history and preserve a record of their work after they have been moved to a new ALEKS course. This feature can be found in the following reports:

• ALEKS Pie Report for a Single Student (Sec. 6.3.8)
• Progress Report for the Class (Detailed Progress History) (Sec. 6.3.15)
• Progress Report for a Single Student (Sec. 6.3.16)

NOTE. Depending on the options selected by the administrator at the school, instructors are able to see report history only for the courses they have taught or for all courses taken by the student (Sec. 6.8.1). Administrators can see all report history for all students. This feature will display student history from August 1, 2012 through the present; performance prior to this date may appear as a grey bar.

6.3.5 Interpreting Bar Graphs

Bar graphs appear in several of the ALEKS report styles. Although the meanings of the bar graphs vary by report style, there are some common features.

Bar Graph Colors

The colors used to fill the bar indicate the level of mastery of the course contents at a particular time. The bar is filled from left to right.

Blue

Means that mastery was shown on a knowledge check.

Light Blue

Means that tentative mastery was achieved in Learning Mode.

Grey

Indicates the part of the course material not mastered.

Blank (white)

Indicates a knowledge check is in progress.

Aquamarine

Shows progress made between the first and latest knowledge check.
Asterisk

Appearing by a greyed-out bar graph or any other color indicates, in some reports, that a new knowledge check is underway.

Values underneath Bar Graphs

Underneath the bar are percentages corresponding to the like-colored portion of the bar graph; for example, a “25%” in blue under the bar graph indicates that the blue portion of the bar is 25% of its total length. You can also view student progress by the number of topics. Simply click on the Percent or Topics link in the Course Progress column to toggle between the two views.

Multiple Bar Graphs

Where there is more than one bar graph per student, the bar graphs represent different points in the student’s learning history associated with knowledge checks taken by the student. Bar graphs showing a segment of the student’s learning history are stacked, with the earliest on the bottom and the most recent at the top.

More Features

There are several ways of accessing student data using reports:

- The list of students in a bar-graph report can be sorted on any of the report columns by clicking on the text in the header for that column. Clicking on the text in the header section of the column will bring up an ascending or descending arrow, used to sort the column.
- You can also navigate to other kinds of reports by clicking on hyperlinked names or dates. Clicking on a student’s name takes you to the detailed learning history for that student (Sec. 6.3.16).
- Clicking on the date for a knowledge check takes you to a detailed (pie chart) report for that knowledge check (Sec. 6.3.8).

NOTE. On some reports, if students have previously been in a different course, it is possible to toggle between viewing their total time in ALEKS and their total time in the current course. This toggle will appear below the report. For students who have only been in one ALEKS course, the displayed time will be the total time in the current course.

6.3.6 ALEKS Pie

The course report shows the average learning for the course and a detailed view of topic mastery (Fig. 6.12).

This report only includes results for students who have completed at least an Initial Knowledge Check. The ALEKS Pie Mastery for all students in the course and the number of topics completed are initially displayed in the top right.
Instructors can use this report to determine where students are in the course, specifically, what topics they have mastered, have not mastered, are ready to learn, have lost in knowledge check, or have attempted but not mastered (Fig. 6.13). This information can be used to plan classroom instruction, group students based on their knowledge and level of readiness, and communicate directly with these groups.

### 6.3.7 Display Options for ALEKS Pie Report

Instructors can use the *Show* drop-down menu to filter the report by *Current Progress*, *Most Recent Knowledge Check*, or *Initial Knowledge Check*.
• In the **Current Progress** view, the main Ready to Learn Topics for the entire pie are listed to the right of the pie.

• In the **Most Recent Knowledge Check** view, the main Topics Lost in Recent Knowledge Check for the entire pie are listed. This shows data based on the most recent knowledge check results.

• In the **Initial Knowledge Check** view, the main Topics Mastered in Initial Knowledge Check for the entire pie are listed.

These views of student results may be filtered by slice, by selecting a slice from the pie. Clicking on a pie slice will make that slice “sticky,” so that the topics for this slice are displayed and do not change. The average class mastery for this slice is also displayed. Hovering over a slice with the mouse will display the name of that slice.

Topics with the highest numbers of students **Ready To Learn** are the ones most ready for courseroom presentation. Trying to teach topics with low numbers in this display is more likely to produce boredom and frustration, because most students either have learned the topics already or are not yet ready to learn them.

Below the pie the results are broken down further by ALEKS Table of Contents (slice), objectives (when in use), or by any applicable standards. These sections can be broken down further, and instances of problems may be seen by clicking on individual topic links. A new instance of the problem type will be generated each time you click on the topic link.

The columns in this report have different meanings, depending on the current view:

Under **Current Progress**, you see:

- **Mastered**
  These are topics added to the pie after knowledge check in learning mode.

- **Remaining**
  These are topics the students have not shown mastery of, whether they have attempted them or not.

- **Ready to Learn**
  This is a subset of the not mastered category, and are the topics the students are ready to learn now.

- **Attempted, not mastered**
  This is a subset of the Remaining category, and are the topics the students have attempted but not mastered.

Under **Most Recent Knowledge Check**, you see:

- **Mastered**
  These are the topics known based on the most recent knowledge check.
CHAPTER 6. INSTRUCTOR MODULE

**Remaining**
These are the topics the students do not know, based on the most recent knowledge check.

**Ready to Learn**
This is a subset of the not mastered category, and are the topics the students are ready to learn now, based on the most recent knowledge check.

**Lost in Recent Knowledge Check**
These are topics the students knew at one point but have lost, because the most recent knowledge check determined that the students did not know the topic anymore.

Under **Initial Knowledge Check**, you see:

**Mastered**
These are the topics known based on the Initial Knowledge Check.

**Remaining**
These are the topics the students do not know, based on the Initial Knowledge Check.

**Ready to Learn**
This is what the students are ready to learn now, based on the Initial Knowledge Check.

**Other features:**

- If you click on the percent link for a topic, you will see a breakdown of student mastery of that topic.
- You can send messages to students directly from this report.
- You can view additional topics that a group of students is ready to learn.
- The objectives tab (when present), will contain prerequisite topics if the TREC tool added items to the class (Sec. 6.4.9).

**Excel downloads.** Students who have not taken an Initial Knowledge Check will not be shown in this report, but they will be shown in the Excel spreadsheets. Spreadsheets available to download include the following: Pie View, Pie and Slice View, Topic Summary by Slice, Objective View, and Topic Summary by Objective. Please note that the latter two spreadsheets are only available if objectives are set up in the class.

6.3.8 ALEKS Pie Report for a Single Student

This report displays a pie chart for a single student, which by default will represent the most recent period of Knowledge Check and Learning (Fig. 6.14). Reports for other
6.3. REPORTS

Figure 6.14: ALEKS Pie Report for a Single Student

periods may be chosen by selecting dates from the drop-down menu at the top of the page. The report will show the results of the most recent Knowledge Check, along with any progress made in Learning subsequent to that Knowledge Check.

The shading on the pie chart indicates the level of the student’s mastery in each area: the shaded portion represents what the student has mastered, and the unshaded portion represents what the student has yet to learn. To the right of the pie chart are tiles for each individual pie slice, showing a breakdown of what material the student has mastered, learned, and has left to learn. To see a complete list of the topics in each category, click on the View All Topics toggle below the tiles. The list will update based on which tile the user has selected. Click on a topic to generate a unique instance of the problem and an explanation of the instance.

6.3.9 Objective Report

The Objective Report is a scrollable list of tiles for each objective in the course (Fig. 6.15). Each tile summarizes the student’s progress for a particular objective at the time the report is generated. The tiles display the due date of the objective (future objectives) or the date the student completed the objective (past objectives), the score achieved, the number of items making up the objective, and the number of goal topics remaining.

Beneath the tiles are expandable lists of topics, broken down by category: Ready to Learn, Learned, Mastered, and Locked. (“Locked” topics are those for which the student has prerequisite topics left to complete.) To see a full list of topics, click on the View
6.3.10 Progress Reports

Using the Progress Reports, instructors can view student progress on knowledge checks and in Learning Mode at various time intervals (Fig. 6.16). These reports allow instructors to track student progress and ensure students can get intervention when they need it the most. Instructors can change the report view by making a selection in the Show drop-down menu. A description of the report selected will be displayed below the drop-down menu.

In class-level Progress reports, clicking on a student’s name will take the instructor to the individual progress report for the student (Sec. 6.3.16). Clicking on an knowledge check date link will take the instructor to the individual student’s pie report, displaying the student’s progress at that point in time (Sec. 6.3.8).
NOTE. If you navigate away from a Progress report and return at a later time, the report that was last selected will remain in effect.

6.3.11 Learning Progress Since Latest Knowledge Check

This report shows each student’s progress in Learning Mode since the most recent knowledge check (Fig. 6.17). It includes total hours spent in ALEKS, the last login date, the last knowledge check start and end date, total time in knowledge check, course performance displayed in a bar graph, and learning rates. There are several ways this report can be used:

- Identify which students are ahead, on pace, or behind in the course.
- Determine learning rates to use in assigning performance grades or for data tracking purposes.
- Recognize inconsistencies in student usage and progress to identify students needing individual instruction.

NOTE. If objectives are used in the course, the percentage of completion for the current objective is also displayed. For additional information on the interpretation of the bar graphs, see Sec. 6.3.5.

6.3.12 Most Recent Knowledge Check

This report can be used to view each student’s mastery based on the most recent knowledge check taken (Fig. 6.18).
Figure 6.18: Most Recent Knowledge Check

Figure 6.19: Best Performance in Learning Mode Over Time
6.3.13 Best Performance in Learning Mode Over Time

This report can be used to view each student’s best course mastery in Learning Mode within any date range up to one year in the past (Fig. 6.19). Set the date range using the **Change** link, then click **Apply**.

6.3.14 Progress in Knowledge Check Over Time

![Progress in Knowledge Check Over Time](image)

This report can be used to view each student’s progress between the first and last knowledge checks within any date range up to one year in the past (Fig. 6.20). Set the date range using the **Change** link, then click **Apply**.

6.3.15 Detailed Progress History

This report is an expanded version of **Learning Progress Since Latest Knowledge Check** (Fig. 6.21). It shows a segment of the student’s learning history, including knowledge checks and Learning Mode progress for each student within the specified date range. Set the date range using the **Change** link, then click **Apply**. Clicking on the **All Progress** tab will display all students’ current and previous course progress results (if applicable) (Fig. 6.22). The current course can be distinguished by the **(Current Class)** label.

- Each bar graph represents an knowledge check taken by the student.
- The bar graphs are stacked, the earliest on the bottom and the most recent at the top.
- The date and reason for the knowledge check are to the left of each bar graph.
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Figure 6.21: Detailed Progress History

Figure 6.22: Progress History
6.3.16  Progress Report for a Single Student

This report is obtained by selecting a student and then moving to the the **Reports** menu. Click on the **Progress** icon. The Progress Report for a single student in this course displays a list of bar graphs for the single student chosen (Fig. 6.23). There is one row for each knowledge check that the student has taken, with dates (linked to the Report page for that knowledge check). Clicking on the **All Results** tab will display the student’s current and previous course progress results (if applicable). Clicking on an knowledge check date link will take the instructor to the individual student’s pie report, displaying the student’s progress at that point in time (Sec. 6.3.8).

- The blue portion of each bar graph measures the student’s mastery as of the given knowledge check.
- The light blue portion of the bar measures progress made in the Learning Mode subsequent to that knowledge check (but before the next knowledge check, if there is one).
- The percentage values beneath the bars for the blue and light blue portions represent the knowledge check mastery, and subsequent progress in Learning Mode respectively. For example, 57+9% means that the last knowledge check showed 57% mastery, and that subsequent work in the Learning Mode added another 9% mastery for a total of 66%.
- Information on each knowledge check and total hours spent subsequently in the Learning Mode (up to the time of the next knowledge check) is also provided, with average numbers of items gained per hour.
6.3.17 Time and Topic Report

Using this report, instructors can quickly view the summary graph at the top of the report. Instructors can also see the amount of time spent by each student daily in ALEKS, as well as the topics the student has attempted and mastered each day. The report can be generated for the entire course or for individual students. (The number of topics attempted does not include topics the student worked on in Review mode.)

6.3.18 Course Time and Topic Report

Figure 6.24: Course Time and Topic Report

The following points describe the features of the course Time and Topic Report (Fig. 6.24):

- The report can be viewed in intervals ranging from 1 week up through 20 weeks. The time period can be adjusted by clicking on the Change Date Range link.
- The graph shows for each day the total time, average time, total topics, or average topics.
The report displays the number of students enrolled in the course, the number of students logged in to ALEKS, and the amount of time each student has spent working in ALEKS on a daily basis.

The number of topics mastered versus the number attempted is displayed below the daily time log.

If a student has spent some time on an ALEKS knowledge check during that day, the session will be marked with a blue triangle in the upper right-hand corner.

The total amount of time shown for a specific day includes time spent in Learning Mode, as well as any quizzes, homework, review problems, or knowledge check the student has done.

Clicking on an individual student name will take you to the Individual Time and Topic report for that student (Sec. 6.3.19).

### 6.3.19 Individual Time and Topic Report

The Individual Time and Topic report gives detailed information on the topics each student has attempted and mastered (Fig. 6.25). To see the student’s Learning Sequence Log on a certain date, click on the grey column above the date. The Learning Sequence Log will display all the topics that the student attempted and mastered on that date.
Log will display the time and result of the attempted topic. By clicking on the Result icon below the name of the topic (Wrong, Correct, or Success), you can see specific problem the student worked on, along with their answer and the solution.

A wider date range can be chosen for the individual report, up to six months at a time. This report also includes for the student, the last login date, the enrollment date, and hours worked per week.

Students can view their Time and Topic Report by clicking the Report link at the top of their page and selecting the appropriate tab.

### 6.3.20 Knowledge Per Slice

This report shows each student’s current mastery for each ALEKS pie slice in the course and can be generated for the entire course or for individual students (Fig. 6.26). It includes overall course mastery, followed by a breakdown of progress in each pie slice.

Instructors can use this report to determine whether more emphasis should be placed on certain areas of the course, or to compare overall progress in the course with progress in particular slices.

Instructors can download a PDF summary of data from the course report. Clicking the Download Summary link just above the report will generate a PDF that displays time spent in ALEKS, average topic mastery, and a comparison between the beginning knowledge state (based on the Initial Knowledge Check) and the current knowledge state for each pie slice. The report shows this data for both the class and individual student.
6.3.21 Assignment Reports

With the course selected, go to the Reports menu. Clicking on the Assignments icon will display a list of all assignments included in the currently selected course (Fig. 6.27). The Show drop-down menu can be used to filter the assignments by Homework, Quiz, Test, or Knowledge Check. Clicking on an assignment name will show the detailed course results for that assignment.

6.3.22 Scheduled Knowledge Check Report

This report shows the results of the most recent assessment that has been scheduled for the course, in the form of a series of bar graphs (Fig. 6.28).
• A menu at the top of the display can be used to choose earlier scheduled assessments.
• The blue portion of each bar graph shows the student’s knowledge as measured by the assessment.
• If the instructor has chosen to grade the assessment, grades for the assessment are shown (Sec. 6.5.9).

NOTE. Progress in Learning Mode is not shown in this view.

6.3.23 Homework, Quiz, and Test Results

This report shows the results on any given quiz and can be generated for the course or for individual students (Fig. 6.29). Clicking on the Date Submitted for any particular quiz will give the individual results of that quiz by question. It is also possible to see individual questions and answers submitted by each student. The option to view quiz results on a per-question basis may be useful for identifying specific course strengths and weaknesses.

6.3.24 Custom Reports

ALEKS administrators and instructors can create custom reports for their district, school, and classes with the Custom Reports feature. This feature has many options to suit advanced reporting needs across classes and instructors. Administrators and instructors can select data from existing ALEKS reports and export the combined data into a single customized Excel report. Additionally, reports can be scheduled ahead of time. Reports can be generated at multiple levels (e.g., district, school, instructor, class, and multi-class) based on the user’s ALEKS account type. There
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Figure 6.30: Custom Report Template

Figure 6.31: Creating the Custom Report Template
are three main steps to creating a custom report: 1) Create Template, 2) Review and Save, and 3) Schedule Report. See below for further instruction.

NOTE. Data for the Custom Reports feature is available beginning from August 1, 2012.

When first accessing the feature, administrators and instructors will see the introductory screen (Fig. 6.30). To begin creating the template, click on Create New Custom Report Template or the + New Report Template on subsequent visits.

STEP 1: Create Template

By first creating a template, administrators and instructors can determine the foundation for their custom report, and then schedule multiple reports to run off the template. Templates can be re-used and duplicated to save time.

The following information must be selected when creating the template:

Basic Information

A name must be entered for the template.
Select Data
The data must be selected from the categories listed on the left of the screen (Fig. 6.31).

STEP 2: Review and Save
In this step, users will confirm and save their custom report parameters.

STEP 3: Schedule Report
Administrators and instructors can run multiple iterations of their template, modifying the date range and student/class/instructor data to focus on.
The following information must be selected when scheduling the report (Fig. 6.32):

Report Name
A name must be entered for the report, and choices made for the Excel format, and duration display.

Scheduling Options
You can choose whether to schedule a recurring report, or a one time report (the default).

Student Options
The options in this section are displayed based on the selected level of the report.

After a report has been scheduled, a confirmation message is displayed. A custom report may take up to 30-60 minutes to process depending on its size, and will be sent to the ALEKS inbox of the person who scheduled it.

6.4 Course Creation and Configuration (Course Administration)

Courses can easily be created through the course creation wizard. From the Home page, select Instructor Administration then New Course. Alternatively, the instructor can choose a course then select Course Administration followed by New Course. There are various options for creating a course, as described below (Sec. 6.4.1).

The procedure for creating and editing a course includes the setup of Textbook Integration and content customization (if desired). It does not include creating Homework, Quizzes, Tests, or Scheduled Assessments, but these steps may be completed later.

6.4.1 Creating a Course

Selecting New Course displays the following options to create a course (Fig. 6.33):

Create a New Course
This option allows an entirely new course to be created.
6.4.2 Course Creation Wizard

Clicking on \textit{Create a New Course} will display the course creation wizard (Fig. 6.34).

\textbf{Course Information}

Administrators can assign the course to another instructor when setting up the course. In the \textbf{Course Information} section the only optional field is the section name. The course product should not be changed after the course has begun unless
absolutely necessary, as doing so will be disruptive to the students' learning and to the course reports and records. Other values on this page can usually be changed without disruption.

The course dates are used to configure the **Calendar**, and should include the entire period of time that the students will be using ALEKS (Sec. 6.4.35). By default, the course will be automatically archived after the course end date unless this option is deselected (Sec. 6.4.37).

**Course Specific Settings**

These are any specific settings that apply to this course, such as providing ALEKS graphing calculator functionality.

Accessibility mode for visually impaired students can be set at the course level or student level. Turning on this setting will allow a visually impaired student to use JAWS screen reader technology with ALEKS.

**Continue to Course Summary or Customize This Course**

The course will be created when you click on the **Create Course Now** button. The instructor can choose to see the **Course Summary** or **Customize This Course**.

To edit the Course Information and Course Specific Settings sections at a later time, select **Course Summary**, follow by **Course Information**, and then **Edit**.
6.4.3 Save for Later or Cancel

![Figure 6.35: Resume/Discard](image)

Save for Later and Cancel links have been added to the class creation wizard in order to improve the workflow for instructors. These links provide a way to save the data on each page throughout the wizard, so that class customization may be stopped midway and resumed at a later time. These links appear at the bottom of the wizard pages that follow the initial Class Information page.

Note that using the Save for Later or Save and Exit options saves the data, but that changes are not applied until class customization is complete. Instructors will see a confirmation message on the Class Summary page that allows them to Resume or Discard these changes (Fig. 6.35).

Selecting Discard will discard all changes made, and Resume will take instructors back to the last page they were working on during class customization.

When instructors log out of ALEKS and log back in, they can easily resume or discard their class customization through the dashboard message or through the Class Summary message.

In the event that another user concurrently makes changes to a class with customizations that are “Saved for Later,” messages will be shown indicating who was editing the content, and will provide an opportunity for these changes to be resumed or discarded. If changes have been made and saved by another user, the messages will indicate this also.

NOTE. The Save for Later link is not available in Master Template linked classes.

6.4.4 Textbook Integration

If an instructor chooses to customize the course after it has been created, the next page presented will be the Course Content Customization. Here, several choices can be made about the structure of the course, the first being whether to integrate a textbook or not. If a textbook is chosen from the list of available choices using the dropdown menu, ALEKS will automatically place chapter and section references to this textbook on the students’ explanation pages.

One choice in the list of textbooks is the ALEKS Curriculum, which is a division of the topics based on the slices of the ALEKS Pie rather than chapters of a textbook. This choice enables student learning to be structured without the use of a specific textbook.
6.4.5 Set Objectives / Modules

Instructor can choose to configure the class with a textbook or without textbook integration.

**With Textbook Integration.** The instructor can use chapter-based objectives with optional custom objectives, custom objectives alone, or no objectives.

**Chapter-Based Objectives with Optional Custom Objectives**
If this option is selected, you will be able to choose entire chapters from the textbook as objectives for your course, and set end dates or mastery levels for these objectives (Sec. 6.4.6). This is the most efficient way of directing student learning in ALEKS. You can also create custom objectives that combine chapter material freely into new units.

Both types of objectives will include all ALEKS topics that correspond to the chapter.

**Custom Objectives**
If this option is selected, you will need to create all of the objectives for your course manually. This option provides the instructor with the greatest control over the course structure.

**Textbook Integration - No Objectives or Modules**
If this option is selected, students will see references to the textbook, but the textbook will not direct their learning.

**NOTE.** If you choose any of the options for structuring objectives in your course, whether by textbook chapters, custom objectives, or a combination of the two, topics will not be included in the course unless they are included in one of your objectives, or are a prerequisite topic. It will be possible, however, to remove topics after they have been included as part of a chapter or custom objective (Sec. 6.4.8). If only custom objectives are used, it will not usually be necessary to do any further customization of the content.

**No Textbook Integration.** If no textbook is integrated within the course, no textbook will be referenced in ALEKS, and you will only have the choice of the following two options:

**Objectives / Modules**
If this option is selected, you will need to create all of the objectives for your course manually.

**No Objectives or Modules**
If this option is selected, student learning will be guided by ALEKS without objectives.

See the following sections for additional details about the choices outlined above.
6.4.6 Objective Completion

When setting up objectives for your ALEKS course, you can choose either to define end dates or to set a mastery level for each objective. When using mastery level for objective completion (objectives without end dates), instructors select a final day when all objectives will be due (usually around the end of the course).

Objectives / Modules with End Dates

When an end date is assigned to an objective, students should do their best to complete the objective before this date. After this date, students will be moved to the next objective, and the material in the past objective will not be available unless it is prerequisite for current learning. If students finish an objective before the due date, the instructor has the option to move students to the next objective or open all objectives so students have the option to work on Ready to Learn topics in an objective until the next objective begins.

- To choose an end date, click in the box in the end date column. Each chapter/objective included must have an end date unless objectives are being used with mastery levels.
- The start date for the first chapter/objective is always the start date of the course. The start date for any other chapter/objective is one day after the end date of the previous chapter/objective.
- Start dates cannot be set manually, and each chapter included must have an end date. If you want objectives to overlap, you must make the end dates the same. Please keep in mind that objectives with the same end date are combined as a single column in the Gradebook.

Objectives without End Dates (mastery levels for Objectives)

If you choose this option, students will be moved to the next objective when they meet the mastery level set for the current objective (the default is 90%). Students will still be able to access the remaining unmastered topics from all previous objectives through the Topic Carousel by selecting the downward arrow tab in the upper left corner of the screen. A final due date must be set for all objectives, this is the date when scores for all objectives will be sent to the gradebook. The default setting for this date is the end date of the course.

6.4.7 Objectives Editor

Initially, all textbook chapters appear in their normal, order and all are checked for inclusion in the course (Fig. 6.36).

- Remove chapters by unchecking the box to the left of the objective.
- Reorder chapters (or custom objectives) by dragging and dropping the chapter to a different position. Chapters can also be reordered by using the arrows in the Order column.
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Figure 6.36: Objectives Editor

- Edit an objective/chapter by clicking on the **Edit** link below the objective name. This will open the **Edit Objective** page described below (Sec. 6.4.8).
- Check the box next to each chapter/objective to enable a post objective progress assessment (Sec. 6.4.10)
- To create an objective that does not correspond exactly to a textbook chapter or ALEKS slice, use the button marked **+New Custom Objective**, located below the list of textbook chapters/objectives.

**NOTE.** ALEKS permits you to order chapters freely, but a reasonable and conventional ordering of the materials should be used. ALEKS will move topics among chapters in order to maintain prerequisite relations among specific topics, with the result that an unusual ordering of the chapters may not produce the best results for your course structure. Only minor adjustments should be made to the content once students have begun working, to avoid disruption of the students’ work.

To return to the Objective Editor at a later time, select **Course Summary**, locate **Course Content**, follow by **Objectives Editor**, and select **Edit**.

### 6.4.8 Edit Objective

Any objective content can be edited and deleted inside the **Edit Objective** window (Fig. 6.37), found by clicking on the **Edit** link below the objective name in the **Objective Editor** page. Custom objectives can also be deleted from the **Edit Objective** window.
Using this tool, chapters (or ALEKS curriculum slices) can be divided into parts or material can be combined across multiple chapters.

The Textbook View allows you to select content based on the structure of the textbook. The Slice View allows you to select content based on the structure of the ALEKS Pie Chart.

**A specific textbook is integrated with the course**

For chapter-based objectives there will be a Textbook View of items. When editing chapter based objectives, it will be possible to add topics only to the chapter in which they belong. For custom objectives there will be a Textbook View and a Slice View of items.

**The ALEKS curriculum is integrated with the course**

For slice-based objectives and custom objectives there will be a Slice View of items.

**No Textbook Integration is in use**

Custom objectives will present items from the Slice View.

Topics may be added or removed from objectives as follows:

- Click on the plus sign (+) to the left of each folder to view its contents.
- Check the box to the left of a topic name to include that topic in your objective.
- To see a sample problem for any topic, double-click on the topic name.
- Check the box to the right of a folder icon to include all topics in that folder.
A running count of the number of included topics will be displayed just above the directory window.

- Use the **Custom Objective Name** field to change the name assigned to the objective.
- Click the **Done** button when you have finished customizing the objective.

The new objective will appear in the table of objectives. An end date or mastery level should be entered, depending on the objective completion method in use (Sec. 6.4.6). This procedure can be repeated to create additional custom objectives.

**NOTE.** In courses that are configured with objectives, the Objective Editor will only display topics contained and structured according to those objectives. If an instructor removes a substantial number of fundamental topics from the course, the Topic Recommendation Tool will calculate whether any prerequisite topics are missing, and allow the instructor to add them back for optimal learning (Sec. 6.4.9).

When objective customization is complete, click on the **Continue** button to review the settings. Click on **Save** to finalize the setup.

### 6.4.9 Topic Recommendation Tool (TREC)

![Topic Recommendation Tool (TREC)](image)

**Figure 6.38: Topic Recommendation Tool (TREC)**
The ALEKS Topic Recommendation Tool (TREC) provides instructors with a way to add prerequisite topics to their course content that may have been omitted during the creation/editing process (Fig. 6.38).

The TREC tool is only displayed when necessary. For example, if an instructor only changes objective due dates, without changing any actual content, TREC will be skipped.

The TREC Tool displays one or more columns of recommended prerequisite topics, and instructors must select a column before being able to continue. Selecting the Details link will allow you to see how a topic relates to other topics.

Adding Topics to a Course

Clicking on the Options link will display more information about the topic and allow you to add the topic to an existing objective. Adding a prerequisite topic to an objective makes the topic a goal topic in that objective.

Topics may also be added to the course content, that are not added to an objective. These topics when completed will not count toward objective grades, if the gradebook has been enabled for the course.

The Class Content section of the Class Summary page will contain a breakdown of goal topics and prerequisite topics if applicable (Sec. 6.4.16). There will also be a link to edit the prerequisites in the TREC tool on the Class Content section. This breakdown of goal and prerequisite topics will also be included on the Course Syllabus (Sec. 6.4.15).

Currently in Class

After the course content has been edited, a Currently in Class column will appear. These topics are prerequisite topics that are currently in the course content but not part of any particular objective.

Recommended

These topics are recommended prerequisite topics that support instructional scaffolding and optimal learning. This selection should be used with typical classes that have some students who need additional review.
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**Minimum**
These prerequisite topics are the minimum number of topics required for students to complete goal topics. This selection should only be used for classes where all the students do NOT need review of prerequisite topics.

**No Prerequisites**
Instructors can choose not to add any topics. This selection will not retain prerequisite topics; all previously added prerequisite topics will be removed.

**New Tagging Feature**
On subsequent visits to the TREC tool, topics not previously recommended to the instructor will be identified as new (Fig. 6.39).

### 6.4.10 Post Objective Progress Assessment

When students complete an objective assignment before the scheduled end date or reach the assigned mastery level (for objectives without end dates), they can either be assessed automatically on their mastery of this material or be moved to the next objective without an assessment.

Students who do not complete the objective material before the due date, or who do not meet the mastery level, will not have an assessment triggered by this option.

As with all assessments, once the student has started the assessment, they must complete it, even if the due date for the objective has passed.

- The assessment score will not affect the student’s score for the objective completion in the Gradebook.
- This assessment will reset the **assessment clock** so that the student will not have two assessments in quick succession.
- To avoid the over-assessment of students, ALEKS will prevent all automatic assessments for students with 10 or fewer items remaining in an objective, or in the 48 hours preceding the end date of the objective.
- If there is no end date for the objective, automatic assessments will be prevented for students with 10 or fewer items remaining to complete the current objective, regardless of the mastery levels set.

### 6.4.11 Content Editor

The Content Editor is mainly for use in courses where objectives are not in use. If an instructor removes a substantial number of fundamental topics from the course, the Topic Recommendation Tool will calculate whether any prerequisite topics are missing, and allow the instructor to add them back for optimal learning (Sec. 6.4.9).
To access the Content Editor from the Course Summary, locate the Course Content section, and then click on Edit next to Content Customization. On the page that follows, click Continue to arrive at the Content Editor.

**In the Content Editor:**

- All topics that are checked are currently included in the course.
- Unchecked topics are excluded from the course.
- Topics may be checked to include them in the course, or unchecked to remove them.
- To see a sample problem for any topic, double-click on the topic name.

In courses that are configured with objectives, the Content Editor will only display topics contained and structured according to those objectives. The course content can be modified through the Objectives Editor (Sec. 6.4.7) and (Sec. 6.4.8).

Textbook integration tailors the contents of the ALEKS course to the content of the textbook, so that some topics normally included in a given ALEKS course product may be omitted. Even though ALEKS allows relative freedom to determine the content of your course, caution should be used regarding deep cuts to the content, as these may cause ALEKS to function incorrectly. Only minor adjustments should be made to the content once students have begun working, to avoid disruption of the students’ work.

### 6.4.12 Section Level Content

For certain textbooks, the ALEKS items displayed in the Content Editor are organized not only by chapter, but also by section, making it more convenient to customize content on the basis of the textbook structure. Where available, section-level organization is also visible when you are choosing topics to include in Homework, Quizzes, and Test assignments.

### 6.4.13 Core Readiness Topics in the Content Editor

For some textbooks integrated with ALEKS, there is an initial chapter, preceding Chapter 1, that may be called a “Readiness Chapter.” (The exact name of the Readiness Chapter can vary from one book to another.) This chapter contains material that is not strictly part of the course coverage, but is important as foundational material.

If you would like the Readiness/Review chapter to be a distinct unit in the student’s work, it should be assigned a completion date, like other chapters. If no separate completion date is assigned to this chapter, its core material will still be included, but as part of the first chapter.

For courses not using textbook integration, these topics will be listed in the Content Editor under the section “Core Readiness Topics”; you may remove as many of these
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You can select topics as you wish. The other (non-core) topics coming from the Readiness Chapter are also shown in the Content Editor under the section “Other Topics,” but these topics will not be included in the course.

**NOTE.** If custom objectives are used, ALEKS will automatically include core material if at least 50% of the topics from the first regular chapter (or from the second pie slice) are included in the course coverage.

### 6.4.14 Course Summary

![Course Summary](image)

Figure 6.40: Course Summary Part 1

A summary of the course is presented at the end of the customization process (Figs. 6.40 and 6.41). This **Course Summary** can also be found under **Course Administration**. Many options to edit the class are provided on the **Course Summary** page, including the following:

- Course Information (Sec. 6.4.2)
- Syllabus (Sec. 6.4.15)
- Course Content (Sec. 6.4.16)
- Course Options (Sec. 6.4.17)
- Implementation Information (Sec. 6.4.23)
- Course Duplicate Settings (Sec. 6.4.24)
- Gradebook (Sec. 6.4.25)
- Resources (Sec. 6.4.26)
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6.4.15 Syllabus

On the Course Summary page there is a link to download the ALEKS Course Syllabus. Two formats are available, an HTML webpage or a PDF document. The ALEKS Course Syllabus contains a detailed summary of the course configuration. This syllabus can be printed as a convenient reference or as documentation of the course setup.

6.4.16 Course Content

This section on the Course Summary page contains the course customization options previously chosen such as textbook integration, objectives, and the objective settings (Fig. 6.42). These selections can be revisited by clicking on the Edit links in this
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Figure 6.42: Course Content

section. Clicking on the **Edit Prerequisites** link (if available) will allow you to change prerequisite choices in the TREC tool (Sec. 6.4.9).

6.4.17 Class Options

Many options to edit the course settings are provided in the **Course Options** section of the **Course Summary** page, including the following:

- Access Options (Sec. 6.4.18)
- Student Activity Notifications (Sec. 6.4.19)
- Learning Options (Sec. 6.4.20)
- Course Forum (Sec. 6.4.34)
- Student Assessment Options (Sec. 6.4.21)
- Worksheet Options (Sec. 6.4.22)

Click on **Edit** to revise any of these options.

6.4.18 Access Options

From the **Course Summary** page under **Course Options**, click on **Edit** to find the **Access Options**. In this section the following access options are available:

- Student Enrollment Status can be set to Open or Closed, to allow or prevent students from enrolling in this course.
• Course Access can be set to Regular or Denied, to allow or prevent currently enrolled students from accessing this course.
• The Archive Status may be set to archived or unarchived (Sec. 6.4.37).

6.4.19 Student Activity Notifications

From the Course Summary page under Course Options, click on Edit to find Student Activity Notifications. In this section the instructor can request to be notified (and the student be notified) when a student completes an objective. The instructor can also choose to be notified when students assess at certain percentages of the syllabus or when students reach a specific level of learning progress.

6.4.20 Learning Options

From the Course Summary page under Course Options, click on Edit to find Learning Options. In this section, instructors can choose to allow students to see a Learning Page first before being given a problem to solve, show learning resources on problem page, or show the Send Message to Instructor button inside the learning module. These options are on by default.

6.4.21 Student Assessment Options

From the Course Summary page under Course Options, click on Edit to find Student Assessment Options. If the school has IP addresses in place at the school level in ALEKS, the locations that assessments can be taken from may be restricted to these IP addresses. This setting may be differentiated for the Initial Assessment and all subsequent assessments.

Instructors can also delay progress assessment. This feature allows students to finish other assignments or goals before taking the assessment. The assessment delay feature will apply to subsequent or future assessments, not if the assessment is either current or in the past.

6.4.22 Worksheet Options

From the Course Summary page under Course Options, click on Edit to find Worksheet Options (Fig. 6.43). Worksheets consist of 16 questions; by default, these are drawn from the student’s recent learning history, but optionally four of the 16 may be chosen from material that the student may be working on soon (Ready to Learn Questions). Instructors can also manually select their own worksheet combination by using the drop-down menus to specify the number of Review Questions or Ready to
Learn Questions, to include in the worksheet. By default, the instructor always receives messages in ALEKS with the answers to worksheets that students have generated independently. This option can be turned off.

Other options are:

- Remind the students to print a worksheet at the end of an ALEKS session.
- Allow students see the answers to their worksheets.
- Always generate a new worksheet; by default, this only occurs after the student has done some work in Learning Mode.

### 6.4.23 Implementation Information

From the Course Summary page there is a link to an Implementation Information page where instructors are encouraged to enter information about their setup and use of ALEKS. This information helps enable effective training and identify best practices.

### 6.4.24 Class Duplicate Settings

From the Course Summary page there is a link to the Course Duplicate Settings (Fig. 6.44). In this section instructors can adjust course settings that allow other instructors to duplicate this course. To duplicate a class belonging to another instructor, the instructor will need the course code (Sec. 6.4.1).

NOTE. ALEKS Administrators at the institution can always duplicate any course.
6.4.25 Gradebook

From the Course Summary page, instructors may access the Gradebook Setup page. For full details about the Gradebook, see Sec. 6.6.

6.4.26 Resources

From the Course Summary page there is a link to the Resources feature. This feature can also be accessed from Course Administration and the Course Tools icon.

Resources can be added in ALEKS at the course or individual topic level. With this feature, instructors can share files, links, and notes to aid student learning. Students can access these resources through the Resources page and/or Explain pages of ALEKS based on the accessibility options selected by the instructor. An example of a resource is an online video that relates to a particular topic in ALEKS.

Instructors can begin by adding resources or by creating folders to organize the resources. Resources and folders can be added at any time and in any order, and folders can be further organized by creating subfolders.
Below are the resource requirements (Fig. 6.45):

- Three types of resources can be added: files, links, or text-only notes (250 characters or fewer).
- There is no limitation on the number of resources that can be uploaded per topic.
- The file upload size is limited to 4MB per file, and the total amount of resources that instructors can upload in any course is limited to 100MB. Many file extensions are accepted for upload.

### 6.4.27 Incoming andExiting Student Options

These settings determine the rules for assessments, objective grades, and student data when they switch from one course to another within the same course family or course product. These settings can be customized at the Institution, Master Template, and course level.

**Incoming Students** from a course using the same Course Product:

**Students Will Pick Up Where They Left Off**
Students’ pie progress will be carried over to this course. Optional Settings for these students are to trigger a progress assessment, or carry over objective grades. Students whose last initial assessment was more than a certain number of days may be given an initial assessment.

**Fresh Start**
All students will be given an Initial Assessment.
Exiting Students, regardless of what course product they are going to:

Always keep a record of student data in my course, regardless if they exit my course (Recommended)
These students will appear as “Former” students in course rosters.

Keep a record of student data if the student was enrolled for more than a certain number of days
These students will appear as “Former” students in course rosters.

Never keep a record of student data in my course
There will be no record kept of the student’s work in the first course, as though he or she had not been in that course.

NOTE. At the school level, there is a Lock option, to prevent individual instructors from changing these options at the course level. Please also note that the settings above do not apply to students switching courses within the same Master Template.

Note also that these settings do not all apply when the student is moving between courses linked to the same Master Template (Sec. 6.9).

6.4.28 Share Class Access

From the Course Summary page there is a link to the Share Class Access feature. This feature can also be accessed from the Course Administration.

Instructors can share access to their classes with TAs (Teaching Assistants) and other instructors by assigning access levels. Only TAs and Instructors who have been set up in ALEKS will be included in the list of instructors to share the course with.

The instructor of the course will have the following options for assigning an access level:

- No Access
- Full
- Gradebook
- Read Only
- Assign per Student

A shared course will be listed for shared instructors with a “S” next to the name in course lists.

NOTE. ALEKS Administrators always have full access to all courses within the school.
6.4.29 Student Groups

From the Course Summary page there is a link to the Student Groups feature. This feature can also be accessed from the Course Administration. Instructors can divide their courses into Student Groups for filtering reports and Gradebook scores. Students can be added to more than one Student Group; in other words, Groups can overlap. The Student Groups Filter can also be accessed at the Course Level Dashboard.

6.4.30 Course List

Under Course Administration, select Course List. This feature can also be accessed from the Instructor Administration. A list of the instructor’s courses will be displayed (Fig. 6.46). ALEKS Administrators will see all ALEKS courses for each instructor at the college.

When one or more courses are selected by checking the box to the left of a course, the following actions will become available (when applicable):

- New Course (Sec. 6.4.1)
- Course Summary (Sec. 6.4.14)
- Dashboard (Sec. 6.1.4)
- Duplicate (Sec. 6.4.1)
- Archive (Sec. 6.4.37)
- Delete (only available if no students are enrolled in the course)
6.4.31 Cleanup Tool

From the Course Administration, select Cleanup Tool. This feature is used to clear statistics and records at the course level. The tool should be used with extreme caution. The action is irreversible and may cause great disruption to your course.

Clear Statistics
This will clear time logged by students in this class.

Clear Statistics and Records
This will clear time and data accumulated in this class. Students will be prompted to complete a new Initial Assessment.

6.4.32 Course Roster

From the Course Administration, select Course Roster. A list of the students enrolled in the course will be displayed (Fig. 6.47).

When one or more students are selected by checking the box to the left of a student, the following actions will become available (when applicable):

Dashboard
To display the student’s Dashboard (Sec. 6.1.4).

Account Summary
To display the student’s Account Summary.

Send Msg
To send a message to the selected student(s).

Move
To move the student to a new course.

Unenroll
To unenroll the student from the current course.
6.4. COURSE CREATION AND CONFIGURATION (COURSE ADMINISTRATION)

Hide

To hide the student from the course.

Disable

To disable the student from accessing the current course.

Students are tagged as Active, Former, or Hidden. For information about filtering students in the roster, see Sec. 6.2.9.

6.4.33 Financial Aid Code

A Financial Aid Access code can be requested to allow students enrolled in the course free temporary access to ALEKS. The code is valid for a period of 2 weeks. If the course is set for 6-week access codes only, the Financial Aid Access Code is valid for 2 days after activation. The Financial Aid Access code is designed to assist students experiencing financial aid delays. This feature is only available for courses set up to use access codes.

To request a Financial Aid Access Code for your course, from the Course Administration, click on Financial Aid Code. Next, click on the Request a Financial Aid Code button; you will receive a message in your ALEKS Message Center Inbox containing your course code, Financial Aid Access Code, and instructions for the students on how to register with ALEKS. It is recommended that you print out the email or forward it to the students who need it. The code can be used by any number of students in the course, but only for that course. This process should be completed for each course where the Financial Aid Code is needed.

NOTE. When students purchase their access code, the time used in ALEKS with the Financial Aid Access code will be subtracted from the time available on the purchased access code; in other words, using the Financial Aid Access code does not add two weeks to the total length of an account.

6.4.34 Forum

From the Course Administration or from the Course Tools icon, select Forum. The Forum can be used to facilitate meaningful discussions with students in the course. The Forum will have to be enabled the first time the instructor accesses it. To disable the Forum, deselect the option on the Course Options page (Sec. 6.4.17).

6.4.35 Calendar

The Calendar can be accessed either from the Course Administration or from the Course Tools icon (Fig. 6.48). Instructors can view and schedule assignments through the Calendar by clicking on the Create New Assignment button. Instructors
can create a new assignment from the beginning or select Duplicate from Another Course to reuse the same content. The Calendar shows all assignments in the course, one month at a time, with their start and end dates.

Hovering over either a start date or an end date will highlight the start and end dates for the assignment.

All assignments appearing in the Calendar may be included in the course grading scheme. Assignments do not have to be graded, however, to appear in the Calendar. All assignments, graded or not, will appear in the Calendar unless deliberately excluded.

It is also possible to add arbitrary notes to the Calendar by clicking the link, Add note to Calendar (upper right).

### 6.4.36 Student View

The Student View can be accessed either from Course Administration or from the Course Tools icon. The student view can be used to experience exactly what a student experiences in ALEKS. The Student View for an instructor behaves as it would for student: instructors complete the ALEKS tutorial and Initial Assessment, view their pie chart, enter Learning Mode, and can complete assignments if any have been created and assigned to the course. The Reset the Student View checkbox can be used to reset the Student View to the beginning of the Student Module (i.e. the ALEKS tutorial); this will delete any previous work logged by the instructor in the Student View.
6.5. ASSIGNMENTS

6.4.37 Course Archive

Archiving can be used to simplify the list of courses displayed from the Course tab. Course archiving (and unarchiving) can be done in several ways. Individual courses can be archived from the Course Summary page (Sec. 6.4.14), whereas multiple courses can be archived from the Course List page (Sec. 6.4.30). Courses can be set to archive automatically after their end date has passed (Sec. 6.4.2).

6.4.38 Course Tools

After selecting a course, the Course Tools link will be available in the upper right area of the page (Fig. 6.49). Clicking on this link will display icons for quick access to the following for the current course:

- Forum (Sec. 6.4.34)
- Calendar (Sec. 6.4.35)
- Resources (Sec. 6.4.26)
- Student View (Sec. 6.4.36)

6.5 Assignments

The following kinds of assignments can be created in ALEKS: Pie Progress Goal, Time Goal, Topic Goal, Homework, Tests, Quizzes, and Scheduled Assessments (Fig. 6.50). All are optional: ALEKS can be used without any of these, but they may enhance the effectiveness of ALEKS in certain instructional contexts. Pie Progress Goal, Time Goal, and Topic Goal are similar in setup and will be addressed briefly below. Homework, Tests, and Quizzes are similar in how they are configured. The process of creating a Homework assignment will be described below in full detail; Scheduled Assessments will be treated more briefly, focusing on how they differ from Homework, Quizzes, and Tests.

All assignment types are separate categories in the ALEKS Gradebook (Sec. 6.4.25).
6.5.1 Course Assignments

Assignments that have been created for a course can be viewed by clicking on the Assignments option. The Assignments link will display a table showing all assignments in the course (Fig. 6.51). By default the list is sorted by end date, then the name of the assignment. The list can also be sorted based on other columns as well. The table includes the following information: Assignment Name, Type of assignment, Start Date, End Date, Goal Details, Status of the assignment, and a Report option to display the results of the assignment per student.

Possible Status values are:

**Current**
- The assignment is currently available.

**Upcoming**
- The assignment will be available at a future date.

**Completed**
- The assignment due date has passed.


**Disabled**

The assignment has been set up as Disabled in Step 1 on the assignment setup screen.

Clicking on the box next to one of the assignments will display a list of **Actions** available for that assignment. Clicking on more than one assignment at a time will limit the actions available.

Available **Actions** are:

**Edit**

Instructors can modify an existing assignment in the course.

**Quick Edit**

Instructors can adjust the Assignment Name, Start Date and Time, End Date and Time, and Status.

**Print**

Instructors can print up to five different instances of this assignment (Homework, Test, or Quiz).

**View Report**

Instructors can view a report showing each student’s result on the assignment.

**Duplicate**

Instructors can make a duplicate copy of an existing assignment in the current course.

**More**

Selecting the **More** action will display additional options.

**Shift Start and End Dates**

Instructors can adjust the selected assignment Start and End Dates forward or backward by a selected number of days.

**Set Start and End Dates**

Instructors can set the selected assignment start date and time and end date and time.

**Delete**

Instructors can delete the selected assignment.

### 6.5.2 New Homework

Instructors can create a new Homework assignment by clicking on the **Assignments** tab then the **New Homework** link. (Fig. 6.50). Alternatively, instructors can create a new Homework assignment by using the **Duplicate** option from the Assignment List.

The following steps are needed to complete the assignment creation process (Figs. 6.52 and 6.53):
STEP 1: Name & Date
Basic information about the Homework assignment is entered including a name and the dates when it will be available (Sec. 6.5.3).

STEP 2: Content
In this step content is added to the assignment (Sec. 6.5.4).

STEP 3: Gradebook Settings
Instructors can specify when students can see their grades, or if multiple attempts are permitted for the assignment (Sec. 6.5.5).

STEP 4: Advanced Options
In this step instructors can control student access to the assignment (Sec. 6.5.6).

STEP 5: Grading Scale
A grading scale can be set for the assignment and parameters are available to optionally allow this score to be visible to students (Sec. 6.5.7).

6.5.3 Name & Date

STEP 1. This step allows the instructor to select a name for the assignment and the start date and time and end date and time for the Homework. The Homework will be
available to the students during this period. By default, the start date and time is when you begin creating the Homework; the end date and time is 11:59 PM of the same day. This section additionally includes other accessibility parameters that can be selected.

Name
A sequential name for the Homework will be generated (e.g., Homework 1, Homework 2, etc.), or the instructor can choose a name.

Status
Normally, the Homework will be left Enabled; if you wish to keep it hidden for the time being, change the Status to Disabled using the drop-down menu.

Start Date and End Date
Enter the Start Date and Time and the End Date and Time defining the period when the assignment will be available to students.

Location
If IP addresses are used to restrict access to assignments to within the college, a Location drop-down menu will be available (Sec. 6.8.1).

Time Limit
By default, there is no time limit on a Homework, but one may be assigned.

Allow students to save this assignment for later and go back to Learning Mode
By checking this box, instructors can allow students to start an assignment and then save it to complete later. A Save for Later button will be available for students to click when taking the assignment. This will permit students to work in Learning Mode or on other assignments before finishing the assignment. This option is not available for timed assignments.

Publish this Homework to the student calendar
The assignment is normally published to the student calendar, but this can be disabled.

Allow student access to Worked Example while working on this Homework
Instructors have the option to activate the Worked Example for any given homework.

6.5.4 Content

STEP 2. There are several ways to select the topics that the Homework assignment will cover.

Selecting Specific Topics
Using the directory on the left-hand side of the Selector window, select the topics you wish to include, and click on the Add button underneath the Selector. Shift and Ctrl can be used for easy selection of multiple topics. If Textbook Integration
is used (Sec. 6.4.4) the directory may be organized by the textbook. If Textbook Integration is not used then the topics will be organized using ALEKS’s own categories, or the instructor can select to organize the topics by Standard if this option is available. If TREC items were added to the class, there will be an extra folder available that contains prerequisite topics (Sec. 6.4.9).

Select the All Assignments tab to create a Homework that contains the same topics used in another Homework, Quiz, or Test.

**Selecting Random Topics**

Another way to add questions is to specify the number of questions and the chapter from which they are to be taken, then click Add above the Selector window. The questions will be chosen at random from the chapter or standard you specify. You can also do this for different sections, then Shuffle (randomize) them if desired. The total number of questions on the Homework cannot be less than 1 or greater than 60.

To remove topics from the Homework, select them on the right-hand side and click the Remove button. The order of topics can be changed by dragging them in the list, or by selecting them and using the up and down arrows. Or, you can randomize the order by clicking the Shuffle button.

Instructors can modify the points assigned to each topic, ranging from 1 point up to 99 points. This allows some topics to be weighted more heavily on the assignment than others.

To see a sample question for a topic, double-click on the name of the topic. This is not the question that your students will see; the actual questions appearing on the assignment will be generated algorithmically at the time the Homework is taken. Each student will see a different question, but it will be equivalent to the sample question in topic and difficulty.

### 6.5.5 Gradebook Settings

**STEP 3.** You can choose whether the students will see their scores and grades immediately (default), or only after the end date (Fig. 6.53). Next is a box that can be checked to have ALEKS automatically assign partial credit for multi-part problems on the Homework. You can also specify whether the assignment may be taken once or multiple times. If you click the option “This Homework can be taken multiple times,” a window will open in which you can select a number of attempts, as well as options for which score should appear in the Gradebook (the best score, the final score, or the average of all attempts). Also, in this window you can choose one of the following retake options:

**Full Retake**

Students must retake all problems (default).
Quick Retake
Students retake only the problems that were answered incorrectly.

6.5.6 Advanced Options

**STEP 4.** The Prevent automatic assessments option allows you to postpone automatic assessments for up to 7 days prior to the beginning of the assignment (defaults to 2 days). Postponed automatic assessments will occur as soon as the assignment is completed or its end date passes. Objective completion assessments will only be delayed up until the start date of the assignment. Extensions are not taken into account (Sec. 6.5.8).

The instructor can choose whether to assign the Homework to the entire course or only to some students in the course (including a single student, or no students). If you click the option for “specific student(s),” you will see a list of the names of students in the course with checkboxes.

**NOTE.** When an assignment is scheduled for some students, rather than the entire course, the assignment will be considered extra credit in the ALEKS gradebook. This ensures that the assignment will not hurt any student’s grade.

Next, you will be given the choice of how your students will access the Homework assignment. There are two options:

**Students choose when to start Homework assignment after it is available**
Students have the flexibility to choose when to start the Homework assignment so that they can continue to work in other parts of ALEKS without being forced into the assignment.
Included in this option is the ability to password-protect the Homework assignment, providing more control of when and where the Homework assignment can be taken.

**Students must begin the Homework assignment as soon as it is available**

Students are “forced” into the Homework assignment as soon as they log in, once it becomes available. With this option, students will not be able to work in any other areas of ALEKS until they have completed the Homework assignment. See Sec. 6.5.10 for examples of how ALEKS will behave when this option is used.

### 6.5.7 Grading Scale

**STEP 5.** By default, no grading scale is used, and the students see only a percentage score. If the grading scale is used, its default is a conventional scale (A, B, C, etc.) using standard percentage breakpoints (Fig. 6.54). The sliders on the scale can be moved and renamed, and you can add or remove sliders to set practically any scale desired. The labels on the sliders, which are used as grade notations, are limited to a few letters or numbers; to set the label, click on the existing label, type in the new label, then press Return.

Use the **Display Options** under the grading scale to set whether the scale will be used. Even if the scale is not used, the graph will be populated as a histogram once the students begin taking the Homework, giving a useful illustration of the students’ performance on that assignment.

**NOTE.** You can choose to apply the settings on this screen to all future assignments created in this category, in the course by checking the box underneath the display options. This will not include the name, content, and start and end dates.

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Figure 6.54: New Homework (cont.)
6.5. ASSIGNMENTS

To complete the process, click Save at the bottom of the New Homework page. After you click the Save button, the Homework assignment can be edited if changes are required (Sec. 6.5.8). If you do not wish to save the Homework Assignment, click the Cancel button.

6.5.8 Edit Homework

To edit a Homework assignment, click on the Assignment List link. Next, check the box next to the Homework name that you want to edit. Click the Edit action to edit the assignment. Homework can be modified up to the moment when the first student begins to take it; extensions can be created at any time.

STEP 1 through STEP 5 can be edited on this screen. Also, at the bottom of the Edit Homework screen is a Delete this homework button. Clicking this button will delete the Homework assignment.

Create Extension. When students are enrolled in a course, the Create Extension feature is available on the Edit Homework page. Extensions can be created for one or more students. To create the extension, click on the Create Extension button, select the date and time through which the extension will be in effect, choose the student(s) who will be given the extension, and click the Create Extension button.

6.5.9 Scheduled Assessments

Scheduled Assessments have many of the same options as Homework, Quizzes, and Tests (Fig. 6.55). The fundamental difference is that you do not specify the content of an assessment; the assessment is produced by ALEKS automatically, as with all other assessments (Sec. 4.1).

Here are some noteworthy features of Scheduled Assessments:

- When creating a Scheduled Assessment, the instructor has a choice between a “Progress”-style assessment and a “Comprehensive”-style assessment. Progress Assessments are slightly shorter and focus on the student’s most recent learning history; Comprehensive Assessments are slightly longer and probe more deeply into the student’s overall knowledge of the course content.

  In Financial Accounting courses the style of assessment scheduled will be Comprehensive unless automatic assessments have been enabled (Sec. 6.4.17).

- Scheduled Assessments will not allow access to worked examples, integrated eBooks, or multiple attempts.

- It is helpful to block automatic assessments for a number of days prior to the Scheduled Assessment, using the Prevent automatic assessment option. A Scheduled Assessment will “reset the clock” for automatic assessments, so that the “blocked” assessments do not kick in when the assessment is completed.
Assessments and Grading. The score for all ALEKS assessments, including those scheduled as assignments, is always a percentage representing the student’s knowledge of the entire course contents. Assessments do not measure the students’ knowledge exclusively of a particular chapter, unit, or other portion of the course contents. Many instructors prefer not to use Scheduled Assessment results as part of the grading scheme. If Scheduled Assessments are used for grading the grading scale should be set carefully, to reflect your expectation of what the students will have learned at the time the assessment is taken. For more information on setting a goal percentage for a Scheduled Assessment, see Sec. 6.6.2.

6.5.10 Scheduled Assignment Behaviors

The following are several examples of how the ALEKS system will behave when a student must begin a scheduled assignment as soon as it becomes available in ALEKS.

- If a student is working on any kind of assessment (except Initial Assessment), and a Scheduled Test or Scheduled Quiz becomes available, the system will interrupt the assessment, and the student will be prompted to take the Scheduled Test or
Quiz immediately. After the student completes the Scheduled Test or Quiz, the assessment will continue where the student left off.

- If a student is working on any kind of assessment, and a Scheduled Assessment becomes available, the system will stop and **discard the current assessment**. The student will see a message that says the assessment was canceled. The student will be prompted to take the Scheduled Assessment immediately.

- If a student is working on a Homework, Quiz, or Test, and another Homework, Quiz, Test, or Scheduled Assessment becomes available, the system will not interrupt the student’s work. The system will wait until the student has completed the current assignment before prompting the student to take the scheduled assignment.

### 6.5.11 Pie Mastery, Time, and Topic Categories

![Figure 6.56: Pie Mastery Grade Settings](image)

The following categories require specific components to be added via the Gradebook Setup Page, to be included in the Gradebook.

**Pie Mastery**

The Pie Mastery category is used to grade students based on their mastery of a percentage of the ALEKS Pie by a specified due date and time (Fig. 6.56).

**Time**

The Time category is used to grade students based on the amount of minutes/hours spent in ALEKS for a specified date range (Fig. 6.57).

**Topic**

The Topic category is used to grade students based on the number of topics mastered in the ALEKS Pie for a specified date range (Fig. 6.58).
Figure 6.57: Time Grade Settings

Figure 6.58: Topic Grade Settings
6.6 Gradebook

The Gradebook records student grades for assignments in the categories selected in the Gradebook Setup.

The following types of assignment categories can be used by the Gradebook:

- Pie Progress
- Time
- Topics
- Objectives (Chapter Completion)
- Scheduled Assessments
- Quizzes
- Tests
- Homework
- External Assignments

When configuring the Gradebook for a course, the instructor can choose any selection of these assignments. Also, it is possible to use these kinds of assignments and not include them in the Gradebook configuration; for example, the instructor may choose to set up a series of Homework assignments for the course to prepare students for Quizzes or Tests, but not make the Homework assignments part of the grade.
The External Assignment category assignments require specific components (goals or assignments) to be added via the Gradebook Setup page, in order to be included in the gradebook (Secs. 6.5.11 and 6.6.5).

**NOTE.** The full benefit of the ALEKS Gradebook will be obtained if the configuration is thought out carefully before the beginning of the course, and then left unchanged while the course is in progress. In particular, if the students have begun to complete assignments, and grades for the assignments appear in the Gradebook, changes to the configuration may be confusing to students when they check their Gradebook data.

### 6.6.1 Gradebook Interface

To see the Gradebook for a course select **Gradebook** from the sub-navigation menu and then select **Course Gradebook** (Fig. 6.59). Several options are available for this display. By default, all gradebook assignment types are displayed, but the **Show** menu allows the gradebook data to be filtered by assignment type. Each assignment is color-coded by category. If student groups have been set up, gradebook data can be filtered by group.

**Send Message to Selected Students**

Instructors can send a message to students while viewing the Gradebook without having to navigate to the ALEKS Message Center. The default is to sort students by name, but by sorting on a grade column instructors can send messages to groups of students who have high or low values for that column.

**Display Options**

Grading information may be displayed in terms of points (based on the points allotted for each category in the Gradebook configuration) or by percentage of the total points possible. A date range can also be set for the display. After making any changes to the display, click the **Update Display** button.

**Full Screen View**

Click on the link to view the Gradebook in an expanded screen.

**Download to Excel**

As with other reporting displays in ALEKS, the contents of the Gradebook can be downloaded into an Excel spreadsheet for use outside of ALEKS. It is recommended that you download the Gradebook into Excel on a regular basis in order to have a backup file on hand. This can be useful in the event of a discrepancy or if edits need to be made to student scores.

**Student Information**

Students are listed in the left-hand column; there are also options to show their ALEKS Login Names or student ID numbers instead of names.

**Total Grade**

The Total Grade column will be displayed when **All** is chosen from the **Show** drop-down menu. This column computes the student’s current grade based on
assignments completed or for which the due date has passed. This grade predicts the student’s grade for the course based on any work completed to date. For example, if the course is half completed and a student has 70% in this column, it means that if the student’s work continues at the same level for the remainder of the course, the final grade will be around 70%. If a particular category (e.g. Quizzes) is chosen rather than All, a total grade (Quiz Grade) will be displayed, based only on that category of assignments. If a date range is specified other than the entire period of the course, the display will use only the assignments whose dates fall within that range.

**Student Grades**

In the Gradebook, student grades for specific assignments are ordered chronologically by due date. As the students complete the assignments, values are inserted into the corresponding cells as follows:

- **Empty cells**
  The student has not completed the assignment.

- **Zero**
  The due date has passed.

- **Grey**
  The student has completed the assignment but the due date has not passed (the value will not be used in computing the current Total Grade).

For some types of assignments (e.g., Homework with multiple attempts), students have the option of redoing or retaking the assignment, so that values in grey may change before the due date.

Clicking on the [Edit] link in any column, for a specific assignment, will open a box containing options to view and edit student results.

### 6.6.2 Gradebook Setup

After selecting a course, select Gradebook followed by Gradebook Setup to access the setup page. Gradebook Setup can also be found by selecting Course Administration followed by Course Summary.

For each of the grading assignment categories, a category weight percentage can be assigned (Fig. 6.60). To include that category in the Gradebook, you must set this percentage greater than 0. The total percentage weight of all categories combined must equal 100%, or an error message will display when attempting to save the Gradebook Setup page.

**Assignment Weights**

The assignments within each Gradebook category can also have different weights. The weight of each individual assignment can be assigned by clicking on the Edit link found below the category name. When you are entering the weight for each
Figure 6.60: Gradebook Setup

Figure 6.61: Assignment Weights
assignment, there is a toggle link to **Show or Hide** the details of the weight of each assignment. These details include the percent value of each assignment within the category and the percent value as a component of the total grade (Fig. 6.61).

### Dropping Low Scores

On the assignment weighting page there is a drop-down menu that allows the instructor to specify how many (if any) of the lowest scores will be dropped from the gradebook (Fig. 6.61). Only regular (non-extra credit and non-zero weight) assignments can be dropped. Suppose that 10 ALEKS Quizzes have been set up for the term and the 2 lowest quiz scores have been set to be dropped. ALEKS will not drop any scores until the 9th Quiz has been completed by the students. At that time, the lowest of the 9 scores is determined, and it is dropped when ALEKS computes the overall score for the Quiz category in the Gradebook. When the 10th Quiz has been completed by the students, the 2 lowest of the 10 scores are determined, and they are dropped when ALEKS computes the overall score for the Quiz category in the Gradebook. **ALEKS recommends that you wait until the end of the course to drop the lowest score(s).**

### Extra Credit

Also on the assignment weighting page, there is a check box that can be used to designate the assignment as extra credit (Fig. 6.61). Students who do not complete the extra credit assignment will not be penalized. (Students who do complete the assignment can only improve, never hurt, their grades.) Extra credit assignments are differentiated from regular assignments in the gradebook by a `+` next to the score.

**NOTE.** In ALEKS, assignments not assigned to the entire course are automatically flagged as Extra Credit. This ensures that the assignment to only some students will not hurt the grades of other students.

### Assessments

In the Gradebook, assessments refer only to Scheduled Assessments; results from other assessments cannot be used in the Gradebook (Sec. 4.3).

Each Scheduled Assessment in the course can be assigned a goal percentage. The **Goal** is the percentage of the course that grades on the assessment are based on. For example, midway through the course, the goal for an assessment might be set at 50%. Then, a student who assessed as knowing 40% of the entire course would get a score of 80% on the assessment. (Meeting or exceeding the goal percentage gives a score of 100% for the assessment.)

### Disable Gradebook

The Gradebook can be disabled by clicking **Disable the Gradebook for this Course** on the **Gradebook Setup** page. Disabling the Gradebook for the course will hide the course Gradebook from you and the students in the course. The Gradebook can be reactivated at any time by clicking on the link **Enable the Gradebook for this course** link.
Total Grade Display Settings

By default, the option **Show total grades to students** will be selected in this section of the Gradebook setup. If desired, you can elect to hide the total grades from students by selecting **Hide total grades from students**.

6.6.3 Grading Scale for Total Grade

![Grading Scale for Total Grade](image)

Figure 6.62: Grading Scale for Total Grade

This feature allows the instructor to assign a grading scale for the total course grade (Fig. 6.62). By default, no grading scale is used, and the students see only a percentage score. The default grading scale is a conventional scale (A, B, C, etc.), using standard percentage breakpoints. The sliders on the scale can be moved and renamed, and you can add or remove sliders to set practically any scale desired. The labels on the sliders, which are used as grade notations, are limited to a few letters or numbers; to set the label, click on the existing label, type in the new label, then press your **Enter** key.

Use the options above the grading scale to set whether the scale will be used or not, and who will see it. Even if the scale is not used, the graph will be populated as a histogram, giving a useful illustration of the distribution of students’ overall scores.

6.6.4 Chapter or Objective Completion and the Gradebook

Scores for the Objective category will be calculated in one of the following two ways, based on the course setup:

**Chapter or Objective completion with End Dates**

Each chapter or objective has a due date by which students are expected to complete the material in that unit. If a student completes the chapter or unit before the due date, a grade of 100% is entered into the student’s cell for that assignment.
The score will appear in grey, and it will not be used to compute the Total Grade until the due date has passed. It is not, however, subject to change; even if the student loses material in a subsequent assessment, the 100% score will remain. If the student does not complete the unit by the due date, the percentage of goal topics that the student did complete will appear in the cell as the student’s score. **If multiple objectives have the same end date, they will be treated as a single objective, and there will only be one column for these objectives in the gradebook.**

Chapter or Objective completion without End Dates

All chapters or objectives have a single end date by which students are expected to master all objectives. This feature includes a mastery level completion percentage for the objectives. The mastery level completion defaults to 90% but can be adjusted. Students must master this percentage of the topics in an objective before they can advance to the next objective. The student’s score is entered into the student’s cell for that assignment and will appear in grey until after the end date has passed. When students meet the mastery level they will be moved to the next objective and will be able to access the remaining unmastered topics from all previous objectives. The **Total Grade** column will not include the chapter or objective assignment score until after the end date for the class has passed (Sec. 6.4.6).

Students using ALEKS have access to Gradebook information for their own work, similar to the information described in this chapter.

### 6.6.5 External Assignments

The External Assignment feature is ideal for including student scores on assignments or exams completed outside of ALEKS. These assignments must be added to the Gradebook in the Gradebook Setup page.

External Assignments can be created in **Gradebook Setup** as follows (Fig. 6.63):

1. Click on **Add External Assignment** in the External Assignment Category.
2. Enter the name of the assignment.
3. Adjust the assignment date if necessary.
4. Assign a maximum score.
5. Click on the **Set Maximum Score** button.
6. Enter student scores either by typing or paste from a spreadsheet and click **Save**.

Instead of recording all non-ALEKS assignments in the catch-all **External Assignments** category with a single weighting, you can create an unlimited number of External Assignment categories, each with its own weight. New External Assignment categories can be created in **Gradebook Setup** as follows:
1. Click on the Add New Row link in the Gradebook External Assignment Category.

2. Enter a name for the category.

3. Assign an overall weight to the category and click Save.

If you wish to delete an external assignment category, either delete any assignments in the category, or set the category weight to zero.

### 6.6.6 Adjust Student Scores

Instructors can adjust student scores for ALEKS assignments and external assignments directly through the Gradebook, as follows:

1. Click on Class Gradebook.

2. Click on Edit for the assignment you want to adjust.

3. Click on Edit Student Scores.

4. Edit the scores as necessary.

5. Click the Save button.
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6.6.7 Gradebook Log

From the class Gradebook sub-navigation, select Gradebook Log to access this feature (Fig. 6.59). The Gradebook Log is a record of any adjustments made to student scores in the ALEKS Gradebook. Adjustments may be made to Gradebook scores by you, the primary instructor, teaching assistants, or other instructors who have edit privileges for the course Gradebook. This feature can also be used to monitor adjustments made to the Gradebook by anyone with Share Class Access (Sec. 6.4.28).

6.7 Student Administration

Student Administration allows the instructor to manage individual student accounts and progress. Selecting a student account will display the student-related menus and actions in the sub-navigation.

6.7.1 Account Summary

Student Account Summary allows instructors to make corrections or changes to a student’s name, email address, ID, and account status (Fig. 6.64). For each student, instructors can add a parent/guardian contact information. In addition, instructors can view Student Groups and Share Class Access information (Sec. 6.4.28). To edit a student’s account preferences, click Edit next to the corresponding category.
6.7.2 Move and Unenroll Student

Selecting a student account and clicking on Student Administration displays Move/Unenroll (Fig. 6.65). This feature allows you to move or unenroll the selected student from the course.

**Move Student**

To move a student from the current course to another course:

1. Select Move Student To.
2. Use the drop-down menu to select a new course.
3. Click on Confirm to save your action.

**Unenroll Student**

To unenroll a student from the current course:

1. Select Unenroll.
2. Click on Confirm to save your action.

To move or unenroll multiple students at once, see Sec. 6.4.32.

**NOTE.** See Sec. 6.4.27 for more information on what happens to students’ records when they are moved to a new class.

6.7.3 Student Cleanup Tool

Selecting a student account and clicking on Student Administration displays Cleanup Tool. This feature allows you to clear statistics for an individual student. For the course level Cleanup Tool, see Sec. 6.4.31.
6.7. STUDENT ADMINISTRATION

6.7.4 Student Gradebook

Selecting a student account and clicking on Gradebook displays the following information:

- Student Gradebook information
- Course Gradebook (Sec. 6.4.25)

6.7.5 Student Reports

Selecting a student account and clicking on Reports displays the following information:

- ALEKS Pie (Sec. 6.3.8)
- Progress (Sec. 6.3.16)
- Time & Topic (Sec. 6.3.19)
- Knowledge Per Slice (Sec. 6.3.20)
- Assignments (Sec. 6.3.21)
- Objective (Sec. 6.3.9)
- Time Line

All reports listed here are links to other parts of the Instructor Module.

6.7.6 Student Assignments

Selecting a student account and clicking on Assignments displays the following options (Fig. 6.66):

- Edit Extensions (Sec. 6.7.7)
- Worksheet (Sec. 6.7.8)
- Class Assignments (Sec. 6.5.1)
- Request Assessment (Sec. 6.7.9)
- Cancel Assessment (Sec. 6.7.10)

Please see each section referenced for more details.

6.7.7 Edit Extensions

Selecting a student account and clicking on Assignments displays Edit Extensions. Instructors can give individual students extensions for class objectives and Assignments, which includes Scheduled Assessments, Homeworks, Tests, and Quizzes.
6.7.8 Student Worksheets

Selecting a student account and clicking on **Assignments** displays **Worksheet**. You can create a new worksheet or view previously created worksheets for the student. For a description of the Worksheets feature, see Sec. 6.4.22.

6.7.9 Request Assessment

Selecting a student account and clicking on **Assignments** displays **Request Assessment** (Fig. 6.67). This feature allows you to request a "Progress"-style assessment or a "Comprehensive"-style assessment for a single student, effective immediately. Via the
drop-down Action menu, you can choose between Request new assessment (taken in Institution only) or Request new assessment (taken anywhere). If your college has IP addresses in place at the school level, you can restrict the assessment to be taken on campus by selecting the option marked "Institution Only." The comment box allows the instructor to type a message that the student will see when they log in to take the assessment.

6.7.10 Cancel Current Assessment

Selecting a student account and clicking on Assignments displays Cancel Current Assessment (Fig. 6.68). This feature allows you to cancel any current or pending assessment for the student, until midnight of that day. An automatic reassessment that is cancelled in this way will become active again on the following day.

6.8 Administrator Features

ALEKS administrators have access to three account levels: instructor, course, and student (Fig. 6.69). This section will focus on the Instructor level. The course and student levels are described earlier in detail (Sec. 6.1.2). Administrators begin with the INSTRUCTOR tab on the far left and then can make selections in the succeeding
tabs until the desired level is reached. To move between levels, they need to click on the tab they want to make active again. Features from this menu allow administrators to perform actions such as updating their institution’s settings, creating new instructor accounts, and managing all courses and instructors at the institution, creating Master Templates, managing subscriptions, and other features.

6.8.1 Institution Account Summary

Selecting Institution Administration and clicking Account Summary displays the following options:

Account Information
Administrators can modify the state and time zone settings for the institution under the Account Information section. Usually, these are set correctly when the institution account is first created and do not need to be changed. The institution and billing address can also be modified in this section.

Important Contacts
Administrators can add important contacts such as the school’s Billing Contact, Technical Contact, Implementation Specialist, and Course Product/Feature Upgrade Contact under this section.

Settings
The Institution Network Information section allows you to enter an IP range or Internet Protocol for the computers in your institution. They will be used if you wish to restrict student access to assessments, Homeworks, Quizzes or Tests to the campus network (Sec. 6.5.3). Single IP School Assignment will require students to complete all assessments from the same IP address where they began them. This reduces the flexibility of access that students usually have to their ALEKS accounts, but in some cases it may be desired.

Incoming & Exiting
The Incoming and Exiting Student Options allow you to select whether incoming students from a course within the same course family or same course product should pick up where they left off or start fresh with a new Initial Assessment. See Sec. 6.4.27 for more information about this option.

Administrators and Instructors
Administrators can view a list of administrators and instructors under this section. All accounts are regular instructor account types unless they include one of these labels: (A) for Administrator or (TA) for Teaching Assistant. There is a link to the Admin/Instructor Roster under this section.
6.8.2 Schedule Domain Upgrade

ALEKS Corporation periodically releases new versions of its course products. When this occurs, there is an announcement to users explaining the nature of the upgrade, window of time during which users may upgrade, and the default date on which the upgrade will occur if no action is taken. If the college wishes to schedule the upgrade earlier than the default date, the administrator can use this tool to select the desired date.

NOTE. If an update is available, the changes in the upgrade will be described in detail on this page. Schedule Domain Upgrade can be found under Institution Administration on the main page.

6.8.3 Learning Management System (LMS) Integration

![Learning Management System (LMS) Integration](image)

Figure 6.70: Learning Management System (LMS) Integration

You can set up Single Sign On (SSO) by integrating ALEKS with your school Learning Management System (LMS). This will allow instructors and students to link from your LMS to ALEKS without having to remember separate login names and passwords. It will also remove the need to share Course Codes by letting the LMS feed course information directly to ALEKS. LMS integration is available for all regular ALEKS Higher Ed courses.

ALEKS is a Learning Tools Interoperability (LTI) 1.1 compliant Tool Provider. Your school can integrate ALEKS with any LTI compliant LMS. It is a two-part process, which involves (1) logging into ALEKS to obtain the LTI parameters (2) logging into the school’s LMS to input the parameters.

Part 1: Obtain Parameters

After logging into ALEKS, under the Institution Administration, select In-
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teegration. You will arrive at the Learning Management System (LMS) page (Fig. 6.70). To obtain the parameters for the college, use the drop-down menu to select the LMS that the college is using or the mode of integration. If your LMS is not listed, you can integrate ALEKS with any LTI compliant LMS by selecting “Basic LTI/LTI 1.1” from the list as your mode of integration. If you wish to integrate your LMS with ALEKS using McGraw-Hill (MH) Campus, a service that allows instructors using a LMS to have access to McGraw-Hill educational materials within their LMS, select MH Campus from the list.

After making a selection in the drop-down menu, the parameters for the selected LMS or mode of integration will appear on the screen. Enabling LMS Gradebook Integration will allow instructors to synchronize the overall score for each student in their ALEKS gradebook with their LMS gradebook. Review the parameters carefully and then click on the Save button. This will complete the first part of the integration.

Part 2: Configure a School’s LMS with ALEKS

Administrators now log into their college’s LMS to configure the integration with ALEKS using the parameters obtained from the ALEKS “LMS Integration” page. Some of the LMS selections will show one or more “?” icons on the page. Clicking on a “?” will open a pop-up with additional instructions.

Once the setup between the LMS and ALEKS is complete, instructors and students can pair their LMS accounts and courses with their ALEKS courses. For detailed instructions on institution, instructor, course, and student pairing, visit the ALEKS Training Center.

6.8.4 Instructor Roster

![Instructor Roster](image)

Figure 6.71: Instructor Roster
6.8. ADMINISTRATOR FEATURES

Administrators can view a roster for all instructors at the school by selecting Instructor Roster from Institution Administration. The Instructor Roster displays detailed instructor information (Fig. 6.71). The roster can be used to manage other instructor’s account settings, including permission levels, viewing dashboards, sending messages, and archiving or deleting accounts. Multiple instructor accounts can be updated at the same time through the Instructor Roster, and individual instructor accounts can be edited through each instructor’s Account Settings from their Account Summary. There are features in the Instructor Module that can be used to manage ALEKS subscriptions, register students, and manage student accounts. Some features consume purchased ALEKS subscriptions; therefore, administrators can limit instructors’ access to these features by enabling or disabling permissions per Instructor. Edit Multiple Permissions can be done from the Instructor Roster under Institution Administration. To edit a specific instructors’s permissions, select the instructors’s account summary.

NOTE. Archiving can be used to simplify the Instructor Roster so that only current instructors appear in the roster. Archived accounts can be accessed and un-archived at any time; archiving does not impact the instructors’ ability to access their accounts.

6.8.5 Create New Instructor Account

Frequently, instructor accounts are created by ALEKS Corporation for the college. Administrators, however, are able to create them independently by selecting Institution Administration and clicking New Instructor. Note that new instructors may be set up with administrator privileges.

6.8.6 Subscription Management System

This page does not show the use of access codes at the college. Many institutions use only access codes; in such cases, no information will appear on this page.

For some purposes, it may be preferable to use “subscriptions” (or virtual account inventory) rather than access codes for creating student accounts in ALEKS. If the college has used subscriptions for any of its students’ access to ALEKS, a summary of subscription activity will appear on this page.

Administrators can monitor the number of available subscriptions for student registration. When subscriptions are purchased at the district level, the Administrator can move subscriptions between institutions, put subscriptions on hold, or move subscriptions from one institution to another for their districts and schools through the Subscription Management System (SMS). District administrators will see subscriptions for the district and for schools within the district.

Using the SMS system, school administrators can put subscriptions on hold at their school. School administrators will see only the subscriptions for their school. To access
the SMS, the school administrator clicks **Subscriptions**, and then clicks on **Subscription Management**.

There are three tabs in the SMS:

**Subscription Management**

The subscription information will be displayed for the district or school. This includes the subscriptions type or length and whether the subscriptions are “Usable Now” or “On hold.”

**Orders**

The Orders tab displays a detailed history of the ALEKS subscriptions purchased at the school or district. The information includes the purchase date, invoice number, subscription type, quota purchased, number used, and number remaining. At the bottom of the screen is a link that administrators can use to send an Excel document to their ALEKS Message Center inbox containing a list of subscriptions used within a specified date range. There is also an option to exclude expired subscriptions from the report.

**Activity Log**

The Activity Log tab displays the history of subscription movements and holds performed via the Subscription Management tab. Each entry contains detailed information about the action.

### 6.8.7 Administrative Reports

There are a variety of reports available to administrators. These reports help monitor the institution’s progress in terms of student and course performance across applicable standards. To access the reports, click on **Reports** and then select a report.

**Custom Reports**

Is a powerful tool that can help administrators gather important metrics to show how institutions, instructors, and courses are performing in comparison with each other. To access the report, make a selection in each tab until the level of the desired report is reached, click **Reports**, and then click **Custom Reports**. See Sec. 6.3.24 for more details about this feature.

**Enrollment/Activity**

Shows the total number of students ever enrolled in ALEKS at the institution, and the numbers of students active in the system during the last week, the last month, and the last three months (optionally 12 months). For each of these intervals, it also shows the average number of hours spent weekly by the students who were active in ALEKS.

**Course Activity**

Shows the number of students who worked in ALEKS or QuickTables each month and the average hours worked each week.
Common Core Report
Details student performance against applicable standards, for all students at the college who have taken an Initial Assessment between specified dates. Additional selection criteria are Mastery Criterion, the percentage used by ALEKS to determine that a standard has been mastered, and the “Hours cut off,” the amount of time used to compare two groups of students. For example, if the “Hours cut off” is set to 30 hours, the performance of students who have used ALEKS for less than 30 hours will be compared with that of students who have used ALEKS for at least 30 hours.

Server Stats: Page Hits
Presents a graph of page hits over time by users of ALEKS at the college. The “Data Range” menu can be used to set the time period that is graphed. Beneath the graph a range of summary statistics may appear, depending on the time span chosen.

Server Stats: User Hour
Is similar to the “Server Stats: Page Hits” report, but graphs the number of user-hours over time.

6.8.8 Student Roster (Institution Level)

![Student Roster (Institution Level)](Image)

Figure 6.72: Student Roster (Institution Level)

Administrators can view a roster for all students at the school by selecting Student Roster from the Institution Administration. This default roster setting shows all active classes that students are currently enrolled in (Fig. 6.72). If students have more
than one ALEKS class, their classes are grouped under the Class column. Select the “Plus” icon to see more rows.

Administrators can use the following filters to display various groups of students in the roster:

**Enrolled**
- Displays students who are currently enrolled.

**Unenrolled**
- Displays students who are currently unenrolled.

**Valid Subscription**
- Displays students with a valid ALEKS subscription.

**Expired**
- Displays students with an expired ALEKS subscription.

For information about student roster at the Instructor level and Course Roster, see Secs. 6.2.9 and 6.4.32.

### 6.9 Master Templates

The Master Templates are one of the most powerful features in ALEKS. They provide an efficient way to create and control course instances based on a master course (Fig. 6.73). Instructors who have administrator privileges can create a Master Template, add assignments, and create any number of linked courses based on the Master Template. Instructors teaching the linked courses can edit their individual course settings and assignments and add their own assignments (unless “Lockout” is used; see Sec. 6.9.5). Changes made subsequently to the Master Template will propagate to the linked courses, overriding previous settings as well as any changes made by individual instructors.
6.9. MASTER TEMPLATES

6.9.1 Master Templates List

The Master Templates List displays all Master Templates at the institution. When one or more Master Templates are selected, the following actions may become available:

- New Master Template (Sec. 6.9.2)
- Master Template (Class Summary) (Sec. 6.9.4)
- Duplicate (Sec. 6.9.10)
- Archive (Sec. 6.9.11)
- Delete (Sec. 6.9.12)
- Reports (Sec. 6.9.13)

6.9.2 Getting Started

Selecting **New Master Template** displays the following options (Fig. 6.74):

**Create a New Master Template**
This option allows you to customize your own course settings and assignments. Select this option to go through the Master Template creation wizard (Sec. 6.9.3).

**Create a Master Template from an Existing Course**
This timesaving option allows you to copy all course settings and assignments from an existing course into the new Master Template (Sec. 6.9.9).

**Duplicate a Master Template**
This timesaving option allows you to copy all course settings and assignments from an existing Master Template into a new one (Sec. 6.9.10).

After the Master Template is created, administrators can view it under the Master Templates List.
6.9.3 Master Template Basic Settings

Clicking on Create a New Master Template displays the following basic settings:

**Master Template Basic Information**

- Select the ALEKS Course Product for the template. The ALEKS Course Product should not be changed after the class has begun, as doing so will be disruptive to the students’ learning and to the class reports and records.
- The Master Template is required to have a name; this name can be the name appearing in your institution’s course catalogue or anything else you wish. The Master Template name will be a part of the linked courses’ names.
- Course Dates are used to configure the Course Calendar, and should include the entire period of time that the students will be using ALEKS. All linked courses created with this Master Template will have the same Start and End dates. The option to automatically archive the Master Template is also available in this step.

**Course Specific Settings**

These are specific settings that apply to this course template, such as providing ALEKS graphing calculator functionality.

Accessibility mode for visually impaired students can be set in the Show Accessibility Options area. The link will appear for any class where accommodations for visually impaired students is available.

To edit the Master Template Basic Information and Course Specific Settings sections at a later time, select Master Template List, select the desire Master Template, and then select Course Summary, followed by Edit next to the Master Template Information section.

Administrators will click Create Master Template Now to generate the template.

On the page that follows, Administrators have the following choices:

- **Continue to Master Template Summary** (Sec. 6.9.4) to view setup details; or select
- **Customize This Master Template** to set objectives, edit content, or integrate a textbook. For complete details, see Secs. 6.4.4 and 6.4.5.

6.9.4 Master Template (Course Summary)

The Master Template Summary displays all settings and options for the template. Administrators can view and edit any section by selecting Edit.

The available options are:

- Master Template Information (Sec. 6.9.3)
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- Syllabus (Sec. 6.4.15)
- Class Content (Sec. 6.4.16)
- Class Options (Sec. 6.4.17)
- Implementation Information (Sec. 6.4.23)
- Resources (Sec. 6.4.26)
- Lockout Options (Sec. 6.9.5)
- Gradebook (Sec. 6.4.25)
- Assignments (Sec. 6.9.6)
- Linked Classes (Secs. 6.9.7 and 6.9.8)
- Incoming and Exiting (Sec. 6.4.27)

6.9.5 Lockout Options

This feature allows administrators to prevent instructors from editing the course content or assignments in courses linked to the Master Template.

Course Content

If this option is selected, instructors of linked courses cannot edit the course content for their linked courses. Additionally, if administrators use textbook integration or objectives with the Master Template, instructors of linked courses can edit the due dates for each objective, but not edit the content within an objective.

Assignments

If this option is selected, instructors of linked courses cannot edit or delete their assignments linked to the Master Template. They can adjust the dates for these assignments and also create additional assignments for the linked courses.

Incoming and Exiting Student Options

If this option is selected, instructors of linked courses cannot edit Incoming and Exiting Student Options.

6.9.6 Create Assignments in Master Template

To create assignments in a Master Template:

1. In the Master Templates List, click on the name of the template to view the Master Template Summary. Alternatively, you can check the box next to the template and then click Class Summary.
2. Locate the Assignments section, and click Edit.

At the Create Assignments Introduction page, you will see two options for creating an assignment (Fig. 6.75):
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Create a new assignment
This option takes you through the ALEKS assignment creation process (Sec. 6.5.2).

Duplicate an existing assignment
This option allows you to duplicate an existing assignment (Sec. 6.5.1).

Select the assignment type that you wish to create or duplicate: Homework, Quiz, Test, or ALEKS Assessment.

After creating assignments, you will see an Assignment list with the assignments created in the Master Template. You will also have options to modify or add additional assignments on this page. For more complete details about the Assignments List, see Sec. 6.5.1.

NOTE. If administrators want to create External assignments in the Master Template, they can do this from the Gradebook Setup page. Only the assignment name and date can be set at the Master Template level; the students’ grades and maximum point values are set at the linked course level.

6.9.7 Create Linked Courses

After you have defined the Master Template settings, content, and created assignments, you can create linked courses and assign instructors to these courses (Fig. 6.76). A linked course contains the same content and settings as the Master Template. Both the administrator and the instructor assigned to the course will receive a message in their ALEKS Message Center containing important information about the linked courses.

To add linked courses:

1. In the Master Templates List, click on the name of the template to view the Master Template Summary. Alternatively, you can check the box next to the template and then click Class Summary.
2. Locate the Linked Courses section and click **Edit**.

On the Create Linked Courses page, enter the name of the Course CRN/Section and assign an instructor to the individual linked course. (The name of the linked course will consist of the name of the template plus the name of the CRN/Section.) There are three options for the “Instructor” field:

**Existing ALEKS Instructor**
Select this option and then use the drop-down menu to select the name of the Instructor teaching the linked course.

**Instructor to be announced (TBA)**
Select this option if the name of the instructor is unknown. The linked course can be assigned to an instructor at a later time (Sec. 6.9.8).

**Create a new Instructor**
Select this option if the instructor does not have an existing ALEKS account. Enter the title, first and last names, and e-mail address of the instructor teaching the linked course. ALEKS will send an email message containing login information to the instructor. If an email address is not provided, the administrator will need to edit the instructor account, change the password, and send it to the instructor at a later time (Sec. 6.2.1).

A maximum of 15 linked courses can be created at a time. To add more linked courses, repeat the steps.

Once saved, you will receive a confirmation and arrive at the Linked Class List page with the linked courses that have been created. You can create another linked course by selecting **New Linked Class**, edit the linked courses by clicking on the CRN/Section.
name of each class, or complete the Master Template set-up process by clicking I am done creating linked courses.

**NOTE.** There is no limit on the number of linked courses you can associate with a Master Template. The interface allows you to link up to 15 at a time: to add more than 15 linked courses, just return to the Master Template Summary page, locate the Linked Classes section, and select Edit. On the Linked Class List page, select New Linked Class.

### 6.9.8 Courses to be Assigned

![Figure 6.77: Courses to be Assigned](image)

The Courses to be Assigned page contains linked courses that were set to “Instructor to be announced (TBA)” (Fig. 6.77).

To assign a linked course to an instructor:

1. From the Master Templates sub-navigation, select Courses to be Assigned.
2. Check the box next to the name of the linked course that needs an instructor.
3. Click Move.
4. Select the instructor who is going to teach the course.
5. Click Apply.
6. Click Confirm.

Once a linked course has been assigned, the instructor assigned to the course will receive a message about the new course information in their ALEKS Message Center. The Master Template name will be part of the linked Course Name; instructors can view this information or edit the information by clicking on Class Summary.
6.9. MASTER TEMPLATES

6.9. Create a Master Template from an Existing Course

After selecting **Create a Master Template from an Existing Course**, use the drop-down menu to select an instructor and a course. Then, click on **Continue** (Fig. 6.78).

On the page that follows, fill in the new Master Template information, including Name and Start Date/End Date. At this time, you also have the option to select the settings you wish to copy into the new Master Template. Click **Save** to create the template.

If there are assignments in the previous template, you will arrive at the **Edit Due Dates** page to adjust the start and end dates to correspond to your new Master Template or select **Continue to Master Template Summary**.

6.9.10 Duplicate a Master Template

After selecting **Duplicate a Master Template**, use the drop-down menu to select a Master Template, and click **Continue** (Fig. 6.79).

On the page that follows, fill in the new Master Template information, including Name and Start Date/End Date. At this time, you also have the option to select the settings you wish to copy into the new Master Template. Click **Save** to create the template.

If there are assignments in the previous template, you will arrive at the **Edit Due Dates** page to adjust the start and end dates to correspond to your new Master Template or select **Continue to Master Template Summary**.

Duplicating a Master Template does not copy the linked sections (nor would you generally want to). Administrators will need to link sections from the **Master Template Summary** page.
6.9.11 Archive Master Templates

The Archive feature allows administrator to simplify the list of Master Templates without removing templates from the system.

To archive a Master Template:

1. From the Master Templates sub-navigation, select Master Templates List.
2. Check the box(es) next to the Master Template(s) you wish to archive.
3. Select Archive.
4. Click Confirm to save the action.

This will hide the archived Master Template(s) from the list.

Please note that archiving the Master Template does not archive its linked courses. Individual instructors will need to archive their own linked courses from the Course Summary page (Sec. 6.4.14) or the Course List page (Sec. 6.4.30).

6.9.12 Delete Master Template

Administrators can delete a Master Template if no linked courses are set up.

To delete a Master Template:

1. From the Master Templates sub-navigation, select Master Templates List.
2. Check the box next to a Master Template you wish to remove.
3. Select Delete.
4. Click Confirm to proceed with the deletion.

This will remove the selected template from the list.

6.9.13 Master Template Reports

Administrators can run reports quickly and easily at the Master Template level using the Master Template Reports feature. This feature allows administrators to generate a single report for all courses linked to a Master Template.

For each Master Template in use, Administrators can select from a variety of reports. ALEKS will generate the report and email it to the administrator as an Excel attachment. The report will include the students’ names, instructors’ names, class sections, and the relevant report data.

To access the Master Template reports:

1. From the Master Templates sub-navigation, select Master Templates List.
2. Locate the Master Template you wish to run reports for.

3. Under the Reports column, select the paper-like icon for the pre-built Master Templates Reports options. (Or, select the tool-like icon to create a Custom Report; Sec. 6.3.24.)

4. You will see a list of available reports. Click on the link of the report you would like to generate.

5. Select the Send Me the report button.

At the end of the process, you will see a confirmation message letting you know that the request is being processed.

NOTE. Blank Excel attachments will be generated if linked courses to a Master Template do not contain students.

### 6.9.14 Effects of Editing a Master Template

The effects of editing a Master Template are as follows:

- Edits to the Master Template will apply automatically to all linked courses under the Master Template.
- A change made to the Master Template will override changes made in individual linked courses. If something was changed in the course settings on the Master Template, then that specific change is made to all linked courses. Changes are modular. Changing one part in a module will save all settings of that particular module. For example, if something is changed in the template basic settings, all settings from that part of the wizard are saved and will override the linked courses. If a due date is changed in a homework assignment, clicking on the Save button will resave all settings for that assignment.
- Instructors of linked courses will receive a message in their ALEKS Message Center (Inbox) when an administrator has made a change to the Master Template.

### 6.10 District Features

In addition to all the features that are available to school administrators, district administrators have access to the features described below. District administrators have access to four levels of account: institution, instructor, course, and student (Fig. 6.80).
6.10.1 Account Summary

![Account Summary](image)

Selecting **Institution Administration** and then **Account Summary** displays a page containing account settings and important contact information for the district (Fig. 6.81).

6.10.2 Learning Management System (LMS) Integration (District Level)

LMS Integration is also available at the multi-campus level. Integration at this level should only be done when the same LMS instance is shared across ALL campuses. If each institution has its own instance of the LMS, the integration should be done at school level. For more information about LMS Integration, see Sec. 6.8.3.

6.10.3 Administrator Roster

District administrators can view a roster for all administrators in the district by selecting **Administrator Roster** from **Institution Administration**. The administrator roster displays administrator information (Fig. 6.82). This roster can be used to manage administrator accounts, including viewing their dashboards, sending messages, and moving and unenrolling students. Many functions are streamlined on this page for updating and managing accounts efficiently.

6.10.4 New Administrator

New district administrator accounts can be created through this feature (Fig. 6.83).
6.10. DISTRICT FEATURES

Figure 6.82: Administrator Roster

Figure 6.83: New Administrator
6.10.5 Course Activity

Administrators can view the number of students who worked in ALEKS at each school each month and the average hours worked each week.

6.10.6 Student Roster (District Level)

Like the student roster at the institution level, district administrators can manage many student accounts within the district, including viewing their dashboards, sending messages, and moving and unenrolling students. Many functions are streamlined on this page for updating and managing accounts efficiently. For full details on the student roster, see Sec. 6.8.8.

6.10.7 Subscription Management System (District Level)

District administrators can also view and manage subscriptions for the district and for schools within the district. For more information about Subscription Management System, see Sec. 6.8.6.

6.10.8 Administrative Reports (District Level)

District administrators can also generate administrative reports for the district and for schools within the district. For more information about administrative reports, see Sec. 6.8.7.
Chapter 7

Teaching with ALEKS

7.1 The ALEKS Educational Paradigm

ALEKS is based on the understanding that students learn accounting in different ways, at differing speeds. Starting from an accurate assessment of their current knowledge, students in ALEKS are only offered what they have shown themselves ready to learn. (The term “knowledge check” is synonymous with assessment.) They therefore experience less frustration from material that is too difficult and boredom from material that is too easy. Students are engaged in the learning process, and grow in confidence and independence as they use the program. ALEKS periodically reassesses students to test their retention of new knowledge, and if they forget what was once learned, ALEKS smoothly and efficiently guides them through necessary review and reinforcement. With time and persistence, every ALEKS student will progress toward mastery, in a way clearly visible to both student and instructor.

It is normal for students to be in disparate knowledge states; ALEKS puts this information clearly at the instructor’s disposal. The relative mastery attained by students appears clearly from the “Learning Progress Since Latest Assessment” report in the Instructor Module. ALEKS does not require students to progress as a unified group. ALEKS will permit a student to work on any topic in the category “ready to learn,” a list of topics that the student has not yet learned, but has demonstrated (within ALEKS) the readiness to begin learning.

Students using ALEKS will experience new independence and excitement in learning. Instructors also may find different opportunities for optimizing their role in the learning process, with a greatly expanded ability to accurately monitor and effectively promote their students’ learning. The role of the instructor is critical in providing structure, support, and reward for the students’ effective use of ALEKS. If ALEKS is used properly, the instructor’s scope for individual coaching and small-group instruction will be greatly expanded, as will the freedom to teach accounting in a broader and richer way.

ALEKS gives the instructor a set of powerful resources. Various styles of use of ALEKS
are possible. The following should be understood as suggestions, designed to give instructors a sense of the possibilities offered by ALEKS’s extensive library of tools.

7.2 The Instructor and ALEKS

ALEKS is often used in regular classroom settings. The instructor in an ALEKS course need not be collecting, correcting, or distributing papers, organizing groups, managing materials, giving instructions, or supervising activities. The instructor in an ALEKS course may be just as busy teaching accounting to individual learners: getting one student started on a new topic, checking another student’s work, responding to questions, suggesting alternate methods and explanations, making or reinforcing connections among concepts, and congratulating those who add an item to their pie. ALEKS provides comprehensive support to the student in every phase of its use; the instructor will find that the additional direct support given this way is especially productive. The relation of teacher and student is based on knowledge and discovery, not management and sanction. No one is “behind” in ALEKS; setbacks are readily addressed and overcome; every student can expect to make progress and be recognized.

It is important, especially in the early stages of an ALEKS course, to be generous in recognizing student progress. Students need to understand that when they add an item to their pie, or show progress in a new assessment (knowledge check), it is an achievement. At the same time, formal rewards for the effective use of ALEKS need to be built into the course structure and made clear from the outset (Sec. 7.3).

Students will be assessed at the beginning of their use of ALEKS (following Registration and the Tutorial), and at regular intervals after that. The instructor does not need to supervise all ALEKS assessments; normally, students will be using ALEKS both in and out of the classroom, and taking assessments at various times and locations. Once the students realize that the purpose of the ALEKS assessment is to provide appropriate material in the Learning Mode, there will be little reason to get help, use the textbook or calculator inappropriately, or in any other way achieve inaccurate assessment results.

We recommend supervising the Initial Assessment (Knowledge Check). The students may need assistance in their first use of the system, they will need to be reassured that the assessment is not for a grade, and it is important to get valid results on this Initial Assessment, so that the students’ work in the Learning Mode will be productive from the start. For the instructor’s own information, other supervised assessments may also be held at regular intervals to provide accurate “snapshots” of overall progress by the course (Sec. 7.10). We suggest that such supervised assessments be scheduled at the midpoint and end of the class. Also, any assessment results which may be used as a component in the students’ grades should, of course, be obtained from supervised assessments.

NOTE. In cases where students do not seem to be making adequate progress in ALEKS,
the student may have received help, or inappropriately used a calculator on an unsupervised assessment, skewing the assessment results and leading to inappropriate material in the Learning Mode. This can be corrected by requesting a new assessment for the student.

7.3 Planning the ALEKS Course

In ALEKS, the instructor has complete freedom in planning lectures, lessons, and assignments, while ALEKS ensures that students can progress toward mastery regardless of their level of preparation. To the extent that students will be working independently in ALEKS, the content of lab classes is provided by their work in ALEKS. Instructors can, however, plan focused small-group instruction from week to week (Sec. 7.5).

It is important to make ALEKS an integral part of the course requirements and grading scheme. The main factor influencing the success of students using ALEKS is the time that they spend in it. This means that the students must be required to spend a suitable amount of time in ALEKS on a weekly basis. (A minimum of three hours is recommended.) They should be informed of this at the beginning of the course, and the instructor should monitor their fulfillment of this obligation. The amount of time required must be reasonable and in balance with other requirements for the course; the instructor should not simply include an ALEKS requirement without reducing the other requirements that the students have to fulfill. For example, the quantity of homework problems may be reduced, as the students will be solving problems in their ALEKS sessions.

These are only suggestions, and experienced instructors may well find approaches that will be more effective with their own students. There must, however, be clear, formal support for the use of ALEKS.

One approach is to provide a certain number of points toward the final grade for each week that the student fulfills their required hours. It is advisable to reward each week, so that the student does not fall into the expectation that all of the required hours can be done at the end; consistency should be rewarded, along with total hours. If a student falls short of the specified hours during a particular week, that week is not rewarded, but the “deficit” is not carried forward; the next week begins with a clean slate (the primary concern is regular use of the system; for this reason a surplus is also not carried forward). Proportional rewards can also be used; each hour spent has a point value, up to the required minimum.

In order to effectively monitor the students’ use, the instructor should check the hours on the “Learning Progress Since Latest Assessment” page or the “Time and Topic” report. This page can be printed out every week for record-keeping. In rare cases, students may try to fool ALEKS by logging on to their accounts and doing something else; this can be seen when the number of items gained per hour is far too low. ALEKS will log the student off if there is no activity after a certain amount of time. Instructors can obtain
a precise record of a student’s actual work in ALEKS by viewing the student’s “Time and Topic” report.

The students’ achievement in ALEKS (as opposed to their use of the system) may also be used as a component in their final grade. For information on how to do this, see the Instructor Manual.

7.4 Preparing Your Students

The following considerations may be useful in preparing your students to begin to use ALEKS.

Difficulty of Assessment Questions
The ALEKS Initial Assessment (Knowledge Check) is always comprehensive, in order to achieve the highest accuracy and reliability. In the course of the assessment, some questions may be too easy or too difficult for some students. The students should be told to click the I don’t know button only if a question is completely unfamiliar to them; otherwise they should do their best to answer. As the assessment proceeds, the questions will focus more and more closely on the outer limits of the student’s actual knowledge. In Learning Mode (following the assessment), students will be provided only material that they are prepared to learn.

Length of Assessments
The number of questions asked in an ALEKS assessment varies. Normally, an assessment in Financial Accounting requires between 20 and 30 questions.

No Help in Assessments
Explain to the students that they will need paper and pencil for answering assessment questions, but that no help or collaboration whatsoever is permitted during assessment. If the teacher or anyone else helps the student during assessment, even just explaining or rephrasing a question, assessment results may be inaccurate and the student’s learning in ALEKS may initially be hindered. Be sure students understand that the purpose of the Initial Assessment is to gain a precise, detailed understanding of what they know, so that in Learning Mode they are given material they are ready to learn. It is not a “test” to pass or fail, and they will not receive a grade on an ALEKS assessment (unless the instructor chooses to use assessments for grading).

7.5 Focused Instruction with ALEKS

The features of the Instructor Module make it possible to prepare students for specific topics that they are going to work on, and to reinforce and expand on knowledge that students have recently acquired. This involves either guiding lectures or focused instruction to small groups of students based on data obtained from ALEKS.
The two kinds of teaching opportunities cued by ALEKS come from two types of information maintained by the system for students over the entire time that they use it: the set of items a student is “ready to learn” (or “outer fringe” of the student’s knowledge state), and the set of items most recently learned (“what students can do,” the “highest” topics in the student’s knowledge state, called the “inner fringe”). (See the Instructor’s Manual under “Inner and Outer Fringes of a Knowledge State,” in the chapter “Knowledge Spaces and the Theory Behind ALEKS”.) The items “ready to learn” are the topics a student may normally choose to work on in ALEKS; the items recently learned (“what a student can do”) are considered the least secure and most likely to need reinforcement. (These items can be reviewed by clicking the Review button.) When the students are logged on to ALEKS, these two types of information are used automatically to guide and manage their learning. The instructor, however, can also view the inner and outer fringes in a convenient format to plan focused instruction that will parallel, supplement, and enhance the individual work that their students are doing in ALEKS.

To find this information for a course, the instructor can enter the Instructor Module and select the course, then click on Reports and select the ALEKS Pie report. This report represents the average student in the given course, and displays the weaknesses and strengths of the course as a whole. The Show drop-down box can be used to filter the report by “Current Learning,” “Most Recent Knowledge Check,” or “Initial Knowledge Check.” Complete details on which topics students have mastered, not mastered, and are ready to learn in the course are available in the section below the pie chart and can be viewed by Objectives (if textbook integration or intermediate objectives are being used) or ALEKS Table of Contents.

Using the ALEKS Pie Report we can see a breakdown of student mastery for each topic, send messages directly to students, and view additional topics that a group of students is ready to learn. The purpose of this analysis is that the instructor may pick one or more topics from the list and schedule small-group sessions of focused instruction.

The following are examples that illustrate how these features may be used.

**Example 1: Basic**

On a Friday evening, the instructor sits down to plan lessons for the following week. He or she logs onto ALEKS, selects the name of a course in Financial Accounting, and clicks on “ALEKS Pie” under “Reports” to access the ALEKS Pie Report. A pie chart appears showing the average profile of mastery in the course. The “slice” of the pie chart for Basic Transactions and Financial Statements is full to about 90 percent; the slices for Adjusting Entries, Closing Process and Financial Statements, and Merchandising Accounting are filled much less, ranging between 20 and 40 percent. This indicates that lessons for the week may focus profitably on the latter three areas.

**Example 2: Intermediate**

On a weekend afternoon, the instructor logs on to ALEKS, selects the name of a course in Financial Accounting, and clicks on “ALEKS Pie” under “Reports”
to access the ALEKS Pie Report. Next the instructor clicks on the “View all topics” toggle, in either the ALEKS tab or the Objectives tab, and when the list of topics appears, the instructor scans this list for items of particular difficulty. “Revenue recognition” has 16 students currently able to choose this topic from their pie charts. The instructor notes this topic down for class discussion early in the week. With the benefit of some timely preparation, the students can be expected to master this troublesome topic with less difficulty.

**Example 3: Advanced**

On a Monday morning, the instructor logs on to his or her ALEKS account, selects the name of a course in Financial Accounting, and clicks on “ALEKS Pie” under “Reports” to access the ALEKS Pie Report. Next, the instructor clicks on the “View all topics” toggle, in either the ALEKS tab or the Objectives tab, and the list of topics appears, clearly showing what students have mastered, not mastered and are ready to learn. The experience and expertise of the instructor are used to plan with this information. Suppose that there is only time in the week’s schedule for two small group sessions. (The ALEKS class has only one hour in the lab, and ten minutes are set aside to speak with each small group; the remaining forty minutes are for helping students in the lab.) The instructor will look over the topics with two questions in mind: which topics have the greatest numbers of students, and which are most worth discussing.

For example, looking at the list of topics “Ready to learn,” the instructor sees “Adjusting entries: Deferrals, problem type 1.” The instructor knows from experience that students have difficulty with the concept, and that they are more successful with it if they have had a chance to review. This topic has twelve students out of thirty in the class. The instructor uses the message feature to send a note to these students, asking them to meet in the front of the room at the beginning of the lab; the students will receive this note the next time they log on to ALEKS, no later than the beginning of that lab.

Looking over the list of topics “Mastered,” the instructor sees “Effect of transactions on accounts,” with ten students. Although the number of students is less than for other topics, this one seems to the instructor richer in its content of accounting culture than the others. Thus this is chosen as the second topic, and a second message is sent to these students, to meet at the front of the room, ten minutes into the lab.

7.6 Models of Classroom Integration

There are numerous ways in which ALEKS can be and is used in concrete educational situations.

**Supervised Accounting Lab**

Expert supervision can be provided for the students’ use of ALEKS in regularly scheduled accounting lab periods, whether or not these are part of a conventional
class structure. Students benefit from the direct coaching and assistance of qualified instructors in the course of their work with ALEKS.

**Accounting Lab in Structured Course**

The supervised accounting lab may be part of a structure of class meetings, combined with conventional and lecture-style classes. The instructor in such a setting need not gear the sequence of topics covered in classes in any way to what the students are doing in ALEKS; the students’ independent work in ALEKS will increasingly benefit their performance on quizzes and tests, as well as their understanding of lectures. ALEKS is not designed to “teach to the test,” although experience has shown that students’ performance on comprehensive tests improves dramatically when they have worked with ALEKS over time.

**Small-Group Instruction**

The recommended use of ALEKS in a classroom setting makes use of the detailed analysis of individual student knowledge provided through the Course Report page to tailor the lectures to the skills of students.

**Self-Paced Learning**

In this scenario students may use the college computer lab on their own, with only informal supervision. ALEKS is used in this case much as it is for distance learning, except that students have the opportunity for closer consultation with the instructor.

**Distance Learning**

ALEKS is used by students who may never enter the physical classroom, or may enter only on a few occasions for orientation and supervised assessments. ALEKS provides a range of features for communication between instructor and student, as well as powerful facilities for the monitoring and evaluation of student work.

Regardless of which approach is used, you can derive more benefit from ALEKS through monitoring the students’ use of ALEKS and communicating with them, whether in direct contact, by email, or by messages through the ALEKS system. As discussed above, we recommend that a certain number of hours in ALEKS each week be required (Sec. 7.3); this should be made clear from the start as part of the published course syllabus and rewarded appropriately through the grading scheme. Students’ progress in ALEKS should be recognized and reinforced early on; conversely, students who do not seem to make adequate progress should be contacted promptly.

The following sections of this chapter provide more information on these issues affecting the classroom use and integration of ALEKS.

### 7.7 Monitoring Student Use

In the day-to-day use of ALEKS by a class, a principal concern of the instructor is to monitor that students are using ALEKS regularly and for at least the required amount
CHAPTER 7. TEACHING WITH ALEKS

of time. The most convenient place to find this information is the “Time and Topic report for all students” (under “Reports”). Each student’s name is displayed on this page along with the total number of hours that student has spent logged on to the system. There is also a breakdown of how much time the student has spent in ALEKS on a daily basis. Students can see this same breakdown of daily usage in their own accounts by using the “Report” link.

It is also important that critical assessments be supervised by the instructor, to ensure that valid results are received (Sec. 7.2).

7.8 Monitoring the Progress of a Course

The instructor can also use the bar graphs on the “Learning progress since latest assessment” page to see how close each student is to mastery of the subject matter. Keep in mind that the bar graphs displayed on this page show only the students’ achievement as of their last assessment (in blue) and any progress made in the Learning Mode since that assessment (in green). For a more panoramic view of the progress made by a group, select the “Total progress” report. This displays the difference between the students’ knowledge on their first and their most recent assessments.

The “Detailed progress history” report is an expanded version of “Learning progress since latest assessment.” It shows the learning history for all students, with one bar graph for each assessment taken. The bar graphs are stacked, with the earliest on the bottom, and the most recent at the top. To the left of each bar there is the date of the assessment and a notation indicating the reason for the assessment.

To see each of the assessments for a given student, with that student’s progress subsequent to each assessment in the Learning Mode, the instructor should view the page “Progress report for a particular student in this course” for the student.

7.9 Monitoring Individual Progress

On the page “Progress report for a particular student in this course” there is a line for each assessment taken by a particular student, with bar graphs showing mastery as of that assessment and subsequent progress made in the Learning Mode. The Initial Assessment is shown in the bottom line, with later assessments “stacked” upward. By following progression from earlier to later assessments, the instructor can see very clearly how a student is progressing toward mastery of the subject matter.

Use caution in interpreting this information. Students vary widely in how they master material. Progress made in the Learning Mode (green bar) is not always immediately reflected in the student’s level of mastery on a subsequent assessment. Some students progress more quickly in Assessment Mode than in the Learning Mode. In such cases the “new” blue line is further ahead than the green line just below it. On the other
hand, many students make faster progress in the Learning Mode than in assessment. In such cases the “new” blue line lags behind the green line below it. It is very common for a student to master the entire subject matter two or more times in the Learning Mode before that mastery is finally confirmed in an assessment. Part of the power of the ALEKS system is that it accommodates individual differences in behavior.

NOTE. In cases where a student moves backward in his or her mastery, the instructor should contact the student. If the student did not take the assessment seriously enough, a new one can be requested.

7.10 Ordering Assessments

Following the Initial Assessment or Knowledge Check (which should be taken under the instructor’s supervision), the ALEKS system will automatically schedule other assessments as needed to guide the students’ progress. The instructor, however, can order an individual or group assessment at any time. It is a good practice for the instructor to schedule supervised assessments at regular intervals (midterm and end of the course), as “snapshots” of overall course achievement.

7.11 Independent Study and Distance Learning

The ALEKS system is well suited to use in an independent study or distance learning context. ALEKS is self-contained and adaptable to any syllabus or course materials. Students using ALEKS under these circumstances know exactly what the course goals are, where they stand in relation to those goals, and what they need to do to achieve them.

For the instructor administering an independent study or distance learning program, ALEKS solves nearly every problem of management, oversight, evaluation, and communication. All of the information needed to keep track of far-flung independent learners is at the instructor’s fingertips, through the features of the Instructor Module. The internal message system of ALEKS puts the instructor in constant touch with students, without dependence on telephone or email communication.

7.12 The ALEKS Knowledge Structure

Each ALEKS subject, such as Financial Accounting, has a knowledge structure associated with it. The number of items comprised in a knowledge structure ranges roughly between 200 and 1000 topics. A knowledge state is a subset of items which may correspond to the knowledge of an actual student (i.e., there may be a student who has mastered exactly those items, and no others). A knowledge structure is the family of all the knowledge states that we may encounter for a given subject.
An ALEKS structure affects virtually every aspect of ALEKS’s functioning. In the ALEKS Assessment Mode it enables ALEKS to make inferences from student answers, keeping the ALEKS assessments brief but accurate.

The structure is also crucial in the ALEKS Learning Mode. Using the structure of a given course product, the system knows precisely which items are in the inner fringe and outer fringe of each of the knowledge states in ALEKS. The items in the outer fringe of a student’s knowledge state are those items that the student is the most ready to learn next. (From a technical standpoint, an item is in the outer fringe of a state if adding that item to the state results in another feasible knowledge state.) These items are presented to the student in MyPie when the student moves the mouse pointer over the ALEKS Pie Chart. Similarly, an item in the inner fringe of a student’s state is an item either recently learned or one whose mastery by the student might be shaky. (Technically, an item is in the inner fringe of a state if removing that item from the state results in another feasible knowledge state.) They are presented to the student when the student is having difficulty in the ALEKS Learning Mode and during ALEKS Review.

An additional benefit of the proliferation of connections among items in ALEKS is its extreme flexibility from the students’ viewpoint: for any particular topic, there is a vast number of possible approaches, or learning paths, which may lead students to mastery of that topic. This flexibility does not imply, however, that any order is possible. Each learning path leading to a particular topic must contain, at a minimum, the items which are “below” such topic in the ALEKS structure.

7.13 Objectives

ALEKS also provides a facility for creating multiple sets of syllabi within a single course (See the Instructor’s Manual under Set Objectives / Modules, in the chapter Instructor Module). The Objectives feature makes it possible to prioritize particular sets of items for particular periods of time, by constraining the choices available to the students. When Objectives have been set, students will be guided to these items by the shortest possible path.
Chapter 8

Knowledge Spaces and the Theory Behind ALEKS

8.1 History

Knowledge Space Theory has been under development since 1983 by Professor Jean-Claude Falmagne, who is the Chairman and founder of ALEKS Corporation, and other scientists (especially, Jean-Paul Doignon from Belgium) in the United States and Europe.

ALEKS is the first computer system to embody Knowledge Space Theory for assessment and teaching.

8.2 Theory

A complete exposition of Knowledge Space Theory is not intended here. The Bibliography contains a number of references for those interested in further details (Sec. 8.3). Knowledge Space Theory is expressed in a mathematical discipline often referred to as “Combinatorics.” What follows here is a brief, intuitive summary introducing certain fundamental terms employed in discussions of ALEKS.

8.2.1 Domain, Items, and Instances

An academic discipline such as Basic Math, Algebra, or Financial Accounting is represented as a particular set of problems or questions that comprehensively embody the knowledge of the discipline. That set is called the domain, and the problems are called items. A symbolic representation of the domain of Financial Accounting uses dots standing for items (Fig. 8.1). One of the items, which might be entitled “Word problem
with percentages,” is indicated by a line. The problem in the rectangle is an instance of that item.

Each item, or problem type, has at least dozens, more often hundreds or thousands of instances. Full mastery of the subject implies the ability to solve problems corresponding to all the items making up the domain.

Determining the set of items that make up the domain is the first step in constructing a “knowledge structure” for that domain. This is done by research in instructional materials and standards and systematic consultation with professionals. Substantial agreement is achieved among expert pedagogues on the choice and definition of items. The set of items finally arrived at and forming the domain must be comprehensive, that is, it must cover all the concepts that are included in the particular academic discipline.

### 8.2.2 Knowledge States

The knowledge state of a student is represented by the set of items in the domain that he or she is capable of solving under ideal conditions (Fig. 8.2). This means that the student is not working under time pressure, is not upset or impaired in any way, etc. In reality, careless errors may arise. Also, the correct response to a question may occasionally be guessed by a subject lacking any real understanding of the question asked. (This will occur very rarely when using the ALEKS system, because multiple-choice answers are not used.) An individual’s knowledge state is not directly observable and has to be inferred from responses to questions.
8.2.3 Knowledge Structures and Knowledge Spaces

It should be obvious that not all possible subsets of the domain are feasible knowledge states. For instance, every student having mastered “long division” would also have mastered “addition of decimal numbers.” Thus, there is no knowledge state containing the “long division” item that does not also contain the “addition of decimal numbers” item. The collection of all feasible knowledge states is referred to as the knowledge structure. The very large number of states for any product means that there are many possible ways of acquiring knowledge, i.e., many learning paths (Fig. 8.3). In the ALEKS knowledge structure there are literally billions of such learning paths. A “knowledge space” is a particular kind of knowledge structure.

As in many real-life applications, “noise” and errors of various sorts often creep in, which require the elaboration of a probabilistic theory. The ALEKS System is based on such a probabilistic theory, which makes it capable of recovering from errors. For instance, ALEKS is capable of deciding that a student has mastered an item, even though the student has actually made an error when presented with a problem instantiating this item. This is not mysterious: a sensible examiner in an oral exam, observing an error to a question about addition would nevertheless conclude that the student has mastered addition, for example, if that student had given evidence of skillful manipulation of fractions.
The beginning of a possible learning path.
Our structure allows for billions of them.

Figure 8.3: Learning Path

A knowledge state and its outer fringe.

Figure 8.4: Outer Fringe of a Knowledge State
8.2.4 Inner and Outer Fringes of a Knowledge State

An item that has not yet been mastered by a student may not be immediately learnable by that student. Learning one or more prerequisite items may be necessary. Consider a student in a particular knowledge state $K$. The set of all items that may be learned immediately by a student in that state $K$ is called the outer fringe of the state $K$. The outer fringe of a state $K$ is defined as the set of all items, any one of which may be the next one learned. An item is in the outer fringe of the state $K$ if the addition of that item to the state $K$ forms a new, feasible knowledge state (Fig. 8.4). Typically, the outer fringe of a knowledge state will contain between one and several items.

Similarly, an item is in the inner fringe of a state $K$ if there is some other knowledge state to which that item may be added to form state $K$ (Fig. 8.5). The inner fringe of a state $K$ is thus defined as the set of all items, any one of which may have been the last one learned.

These two concepts of inner and outer fringes are used in powerful ways in the Learning Mode of the ALEKS system. For example, the system always offers a student problems to solve that are based on items in the outer fringe of his or her state. If ALEKS judges that a student is experiencing difficulties in learning some new item, ALEKS typically reviews the mastery of items in the inner fringe of the student’s state that are also related to the new item to be learned.

8.2.5 Assessment

How can ALEKS uncover, by efficient questioning, the particular knowledge state of a student? While the details of ALEKS’s method for achieving such a goal are technical,
the guiding intuition is straightforward. At every moment of an assessment, ALEKS chooses a question to be “as informative as possible.” (In ALEKS, assessments may be called “knowledge checks.”) In our context, this means a question which the student has, in the system’s estimate, about a 50 percent chance of getting right. The student’s response (correct or false) determines a change in all the likelihood values: for instance, if the question involved manipulation of fractions, and the student’s response was correct, then all the knowledge states containing this item would have their likelihood values increased. The specific way the questions are chosen and the likelihood values altered makes it possible for ALEKS to pinpoint the student’s state in a relatively short time.

In Financial Accounting, for example, approximately 15–30 questions usually suffice.

Finally, it should be noted that the assessment report given to students, instructors, and administrators is a very precise summary of the student’s knowledge state. If the structure is known, the outer fringe and inner fringe together completely define the student’s knowledge state. Internally, the system registers the student’s knowledge or non-knowledge of each item in the domain.

A more thorough but still accessible overview of Knowledge Space Theory is available on the ALEKS website: Cosyn, Doignon, Falmagne, “The Assessment of Knowledge, in Theory and Practice”:

https://www.aleks.com/about_aleks/Science_Behind_ALEKS.pdf

A comprehensive treatment of Knowledge Space Theory can be found in Doignon and Falmagne, Learning Spaces (Springer-Verlag, Berlin, Heidelberg, 2011).

A comprehensive scientific bibliography on Knowledge Spaces is maintained here:

http://css.uni-graz.at/kst.php

For a more selective bibliography, see the following section.

8.3 Selected Bibliography


8.3. SELECTED BIBLIOGRAPHY


8.3. SELECTED BIBLIOGRAPHY


Chapter 9

Frequently Asked Questions

9.1 General

General questions on ALEKS concern what it is, its purpose, and what it contains.

What is ALEKS?

ALEKS is an online educational software program based on a cycle of assessment and learning. ALEKS course products include Mathematics, Statistics, Accounting, Business, and Chemistry. By knowing exactly which concepts the student has mastered and which are new but within reach, ALEKS enables the student to work on those concepts they are most ready to learn. ALEKS is a full-time automated tutor, including explanations, practice and feedback. ALEKS interacts closely with the student, continuously updating its precise map of the student’s knowledge state. ALEKS combines the advantages of one-on-one instruction and evaluation with the convenience of being on-call, on your computer, 24 hours a day, seven days a week. The cost of ALEKS is a small fraction of the cost of a human tutor.

What makes ALEKS different?

A great many important differences exist between ALEKS and other kinds of “educational software,” including its finely individualized instructional features, easy access over the Internet, rigorous and comprehensive educational content, and full-featured course-management module for instructors and administrators. A critical difference is the capacity of ALEKS for efficient, precise, comprehensive, and qualitative assessment. This not only makes it a valuable tool for monitoring educational progress, but also enables it to provide students with the material they are most able to learn at a particular time. Students will not be given material they have already mastered, or topics for which they have not yet demonstrated prerequisite knowledge.

ALEKS is a self-contained learning environment, with complete sets of practice and explanatory units needed for the subjects that it covers. The units may also
be referenced or linked to textbooks for extended treatment of concepts. There is an online student dictionary accessed by clicking on underlined terms (hypertext links), and a diagnostic feedback facility that, in many cases, is able to explain the nature of misunderstandings and errors made by students.

For instructors, ALEKS offers a complete administrative and monitoring facility through which individual and group progress can be checked, standards established, enrollment managed, and messages exchanged. ALEKS can be configured for use with diverse educational standards.

ALEKS is not a game or “edutainment.” It is an automated educational tool with robust, carefully-designed features for both learners and educators.

**What are the parts or “modules” of ALEKS?**

The principal “modules” of ALEKS are the **Assessment Mode** (assessments are also called “knowledge checks”), in which student knowledge is rigorously assessed, the **Learning Mode**, where students work on mastering specific concepts, the Instructor Module, in which instructors and administrators are able to monitor student progress and carry out administrative functions, and the Administrator Account, which permits management and monitoring of an arbitrary number of separate institutions, such as those making up a multi-campus college system. There is also a Tutorial (which students take when first registering with the system), online help, a accounting dictionary, graphic display of assessment results and learning progress, and many other features.

**Why is ALEKS on the Internet?**

ALEKS is available on the Internet so that a student who has registered with the system can use it from any suitable computer, in any location. No disks, CD’s, peripherals, or backup facilities are required.

### 9.2 Technical

The technical information needed to use ALEKS is minimal. These few questions are all that are likely to be asked, even in a large group of users.

**What are the system requirements for using ALEKS?**

[Sec. 3.2] Fig. 9.1 presents the technical requirements for ALEKS in summary form.

Note that any of the kinds of Internet connection (cable, ISDN, DSL, or wireless) typical in computer labs are adequate for use with ALEKS.

**Where can I get more information on ALEKS? How can I try out the system?**

The ALEKS website provides complete information on the ALEKS system, including a Quick Tour, Free Trial use, licensing, history and theory, and technical support.
9.3 Theory

For those interested in looking beneath the surface, these questions concern the principles on which ALEKS is designed and constructed.

**What is the theory behind ALEKS?**

[Chapter 8] ALEKS is based on a field of Cognitive Science (Mathematical Psychology) called “Knowledge Spaces” (or “Learning Spaces”). The purpose of research in Knowledge Spaces is to model human knowledge in any subject, using mathematical tools such as Set Theory, Combinatorics, and Markovian Processes, so as to make possible fast and accurate assessment through interactive computer applications. There are numerous scientific publications in the field of Knowledge Spaces dating back to the early 1980’s. A recent, authoritative treatment (with Bibliography) is Doignon and Falmagne, *Learning Spaces* (Berlin, Heidelberg: Springer-Verlag, 2011).

**What is an “item”?**

[Sec. 8.2.1] In Knowledge Space theory, an “item” is a concept or skill to be learned, the mastery of which is captured by a “problem type” serving as the basis for specific assessment and practice problems. Thus the item “Addition of two-digit numbers without carry” might produce the problem (instance) “What is 25 plus 11?”

**What is a “domain”?**

[Sec. 8.2.1] In Knowledge Space theory, a “domain” is the set of all items making up a particular subject matter, such as Financial Accounting. A learner is considered to have mastered the domain when that learner can solve problems corresponding to all the items in the domain.

**What is a “knowledge state”?**

[Sec. 8.2.2] In Knowledge Space theory, a “knowledge state” is the set of items belonging to a domain that a learner has mastered at some point in time. We speak of knowledge states in relation to a particular learner and a particular domain.
Obviously, a learner’s knowledge changes in time, and the goal of learning is that the knowledge state should eventually include (correspond to) the entire domain.

What is the “outer fringe” of a knowledge state?

[Sec. 8.2.4] In Knowledge Space theory, a learner’s “outer fringe” is the set of items, any one of which can be added to the current knowledge state without others to make a new, feasible knowledge state. These are the items that the student is considered most “ready to learn.” Progress is made from one state to another through one of the items in the first state’s “outer fringe.”

What is the “inner fringe” of a knowledge state?

[Sec. 8.2.4] In Knowledge Space theory, a learner’s “inner fringe” is the set of items, any one of which can be taken away without any others from the current knowledge state to make a new, feasible knowledge state. These are the items that the student may have learned recently, and thus whose knowledge might need reinforcement.

What is a “knowledge structure”? What is a “knowledge space”?

[Sec. 8.2.3] In Knowledge Space theory, “knowledge structure” or “knowledge space” (the two concepts differ in a technical way) refers to the collection of feasible knowledge states for a particular domain. It is a key point that not all sets of items from the domain (subsets of the domain) are feasible knowledge states. For instance, in mathematics there can be no knowledge state containing the item “finding the square root of an integer” that does not contain the item “addition of two-digit numbers without carry,” since no one will master the first without having mastered the second.

How was the structure created?

The knowledge structures (or, briefly, “structures”) used by ALEKS are created by analysis of the subject matter and refined on the basis of data obtained from students’ learning experiences. When ALEKS assesses a student, it is actually searching the structure for knowledge states that match the student’s present competence.

What is the educational philosophy behind ALEKS?

The educational use of ALEKS is not tied to any particular theory of education or knowledge acquisition. A key insight underlying ALEKS is the existence of a vast multiplicity of diverse “learning paths” or sequences of topics by which a field can be mastered. Based on an inventory of knowledge states that numbers in the tens of thousands (for the subjects currently covered by ALEKS), the specialized tools of Knowledge Space theory make it possible for the system to accommodate literally billions of possible individual learning paths implied by the relations among states. ALEKS does not embody a particular philosophy of teaching accounting; it is compatible with any pedagogical approach.
9.4 Assessments and Reports

Much of the power of ALEKS comes from its capacity for accurately and efficiently assessing the current state of a learner’s knowledge.

**What is an ALEKS assessment (knowledge check)?**

[Chapter 4] An assessment by the ALEKS system consists of a sequence of problems posed to the student. The answers are in the form of accounting expressions and constructions produced by the system’s input tools. The student can answer “I don’t know” where necessary. During an ALEKS assessment, the student is not told whether answers are correct or incorrect. The assessment is adaptive. Each question after the first is chosen on the basis of answers previously submitted. Assessment problems (like practice problems) are algorithmically generated, with random parameters. The length of the assessment is variable, between 15 and 35 questions. There are no time constraints, but some assessments can take less than a half-hour and a few more than an hour and a half. Students taking an assessment need to have paper and pencil. The ALEKS calculator button will become active when use of a calculator is permitted.

No help whatsoever should be given to students taking a knowledge check, not even rephrasing problems. Outside help can easily lead to false assessment results and hinder subsequent work in the ALEKS Learning Mode.

Students may be assessed when they first register with ALEKS. It is advisable that all assessments from which the instructor uses data for grading or a similar purpose take place under the instructor’s supervision. At a minimum, the Initial Assessment should be supervised.

**How does the ALEKS assessment work?**

[Sec. 8.2.5] In assessing a student’s knowledge, the system is in fact determining which of the feasible knowledge states for that subject correspond to the student’s current knowledge. The assessment is probabilistic, so it is not fooled by odd careless errors. (Lucky guesses are very rare.) Likelihood values (values for the likelihood that the student is in a particular knowledge state) are spread out over the states belonging to the structure. With each correct answer, the likelihood of states containing the item for which a correct answer was given is raised and that of states not containing the item lowered. The reverse occurs for incorrect answers or “I don’t know.” At each step of the assessment, the system attempts to choose an item for which it estimates, based on current likelihood values, that the student has about a fifty-fifty chance of success; such questions are maximally informative. When the likelihood values of a few states are extremely high and those of all the rest are extremely low—in technical terms, when the entropy of the structure is lower than a certain threshold value—the assessment ends and results are produced.

If a student makes a careless error or lucky guess, this will appear inconsistent with the general tendency of the student’s responses, and the system will “probe”
that area of knowledge until it is sure. For this reason, inconsistent assessments may require more questions.

**How should I interpret the assessment (knowledge check) report?**

[Sec. 4.7] The results of an ALEKS assessment are shown in the form of a color-keyed pie chart. A pie chart corresponds to a subject matter (domain) or to the curriculum of a particular course. Each slice of the pie corresponds to a general topic. The degree to which the slice is filled in with solid color shows how close the student is to mastering that area.

An extremely important aspect of the pie chart is its indication of what a student is currently most “ready to learn” (that is, the “outer fringe” of the student’s current knowledge state). These items are listed beneath the pie chart in an Assessment Report and are also given through the pie chart itself. When the mouse pointer is placed over a slice of the pie, a list expands out of the pie, showing the concepts that the student is most “ready to learn” in that part of the curriculum. Clicking on any of these concepts takes the student into the Learning Mode.

The pie chart is displayed following assessments, after a concept has been worked on in the Learning Mode, or when a student clicks on “MyPie” to change topics. At any given time, a student can only choose to work on concepts that the student is currently “ready to learn.” This number may vary between two and a few dozen, depending on what part of the structure is involved.

### 9.5 Learning Mode

Students spend by far the greatest part of their time in ALEKS in the Learning Mode. The features of the Learning Mode are designed to provide a maximum of support to the student’s growing mastery of course materials.

**What is the Learning Mode?**

[Chapter 5] The Learning Mode in ALEKS contains features to help students practice and master specific accounting concepts and skills. In the Learning Mode, students are always working on a specific concept that they have chosen and that, in the system’s estimation, they are fully prepared to master. If the learner successfully solves an appropriate number of problems based on that concept, the system will tentatively determine that it has been mastered and offer a new choice of topics. If the student has difficulty, the system will attempt to diagnose and interpret the student’s errors. It will also provide explanations of how to solve problems and definitions of accounting terms. It may suggest the name of a classmate who can help. If the student is unable to master the concept right now, or if the student wishes to change topics, a new choice of topics will be offered. After a certain amount of time has been spent in the Learning Mode, or after a certain amount of progress has been made, the student will automatically be reassessed.
What is the relationship between the Assessment Mode and the Learning Mode in ALEKS?
The Assessment and Learning Modes work together in a cyclical fashion, beginning with the Initial Assessment (Knowledge Check). A student is assessed, and the results of the assessment serve as a basis for the student’s entry into the Learning Mode (the student works on concepts that the assessment showed that student most “ready to learn”). After a certain time in the Learning Mode, during which the results of the previous assessment are tentatively updated according to whether the student masters or fails to master new concepts, the student is reassessed and the cycle begins again. In this sense, ALEKS is an interactive learning system guided and powered by ongoing diagnostic assessment.

NOTE. Students who do not take an Initial Assessment will begin this cycle in Learning Mode.

9.6 Educational Use

ALEKS also provides a full range of features for successful integration into a variety of teaching styles and course plans.

What is the best way to use ALEKS with my course?
The greatest factor in successful use of ALEKS is regular, structured use, with close monitoring of student progress by the instructor. We recommend scheduling regular lab sessions with ALEKS, totalling at least three hours per week, as part of your course requirements. Not every lab session need be supervised by the instructor, but the Initial Assessment should be. Any other interim and concluding assessments scheduled specially by the instructor normally should also be supervised.

There has been successful use of ALEKS in a very wide variety of contexts and structures, including independent study. ALEKS Corporation is happy to consult with instructors on the best way to use ALEKS with their students. Also, extensive materials on implementation strategies in ALEKS are available on the ALEKS website.

Can ALEKS be used with handicapped and learning-disability students? Is ALEKS a remedial tool?
ALEKS is designed to help all students who can read sufficiently to understand what is being displayed on the screen, and who can use a computer. It has been used successfully with students exhibiting a range of learning disabilities. A large part of ALEKS content is compatible with screen-reading technology.

Does ALEKS need to be used with a particular textbook or curriculum?
ALEKS is designed to be used with any syllabus, curriculum, or textbook. The system may also be referenced or linked to a textbook or online applications for particular courses. The fundamental idea of the ALEKS system is to allow students
to pursue individualized paths to mastery of the subject matter. For this reason instructors may often find their students learning material that has not yet been covered in the course.

Does ALEKS have special features for educators?

[Chapter 6] Students’ use of ALEKS and their progress toward mastery can be monitored using the features of the Instructor Module. The Instructor Module also enables instructors and administrators to establish the syllabi and standards used by ALEKS, to configure accounts, to find statistics on multi-campus college system use, and to exchange messages. An instructor or administrator who has been registered with ALEKS enters the Instructor Module immediately upon login.

How can I contact ALEKS Corporation Customer Support?

[Sec. 10] You can contact ALEKS Corporation using the information in Chapter 12 of this manual. Students should approach their instructor first with any questions or problems regarding the use of ALEKS. Questions the instructor cannot answer should be brought to our attention.
Chapter 10

Support

Current information on ALEKS is available at the ALEKS website:

https://www.aleks.com

Technical support and consultation on the effective use of ALEKS is provided to educators by ALEKS Corporation. Please contact the support group via the web:

https://support.aleks.com

by telephone:

(714) 619-7090

or by fax:

(714) 245-7190

NOTE. We ask that students using ALEKS not contact us directly, but approach their instructors first. It is hoped that the information in this Instructor’s Manual will enable instructors to answer many of their students’ questions.

We also welcome any and all comments and feedback on ALEKS. Here is our mailing address:

ALEKS Corporation Customer Support
15460 Laguna Canyon Road
Irvine, CA 92618
Appendix A

ALEKS Student User’s Guide

A.1 Student Account Home

![Student Account Home Main Screen](image)

Figure A.1: Student Account Home Main Screen
After completing the registration process, you will be taken to the Student Account Home. The Student Account Home groups all ALEKS student accounts for a single student under the same umbrella account. This allows students to manage and add more ALEKS courses to their umbrella account rather than creating separate accounts for each ALEKS course. Students will also only need to remember one Login Name and Password.

The Student Account Home lists your current and past ALEKS courses, and includes options to sign up for new courses, switch courses, suspend courses, extend access to courses, and remove courses from the Student Account Home.

A.1.1 Account Management

![Student Account Home Settings](image)

Figure A.2: Student Account Home Settings

When you log in to your ALEKS account, you arrive at the Student Account Home main screen and have the following options available to you:

**Account Settings**

To access the account settings, click on your name in the upper right corner of the Student Account Home main screen. This screen displays information both for the umbrella account and for the college that you attend. This information includes your name, the Login Name for the umbrella account, the account Password (hidden), and the email address linked to the account. You can edit certain entries by clicking on the Edit link to the right. To return to the main screen, click on the Done button.

**Adding a New Course**

You can add a new course by clicking on the button **Sign up for a new class** (Fig. A.1). You will be prompted to enter the course code for the new course and
then purchase a new access code. Once the new course has been added, it will be displayed in the ACTIVE section on the Student Account Home main page, along with any other active courses.

Active Courses
All courses in which you have an active account will be listed here. You will see the name of the course, the name of the instructor, the date you last logged in to the account, and the date your access to the course will expire. Additional information can be accessed by clicking on the **Show more** link, including the Course Code, the Reference ID for the account, the date the account was started, the amount of time spent in the course, and the current level of progress.

Inactive Courses
The INACTIVE section will display a list of your courses that are no longer active. The same course information that is displayed in the ACTIVE courses is available here.

Accessing a Course
You can access an active course by clicking on the course name. You will be taken to your pie chart for that course and will be able to work on topics. To return to the Student Account Home main screen, click on your name in the upper right corner and select the **Account home** option. To completely log out, choose the **Log out** option after clicking on your name.

A.1.2 Course Management

Different options are available, depending on whether a course is ACTIVE, ON-HOLD, or INACTIVE:

**ACTIVE Course Options**
The following options are available for ACTIVE courses by clicking on the Actions button:

**Switch to a new class**
You can switch to a new course by entering a new course code. When you do this, the new course will become active and the previously active course may appear under INACTIVE (see below).

**Suspend Access to this Course**
This option will only appear when your subscription meets the eligibility requirements for suspension (Sec. A.1.4). Once suspended, an account appears in the ON-HOLD section.

**Extend Access to this Course**
You can extend access to your course by selecting the Extend option and entering a new 20-character access code.

**ON-HOLD Course Options**
the Actions button:
Reactivate Accounts
You can click on the Reactivate button when you are ready to reactivate a course that was suspended or placed on Leave of Absence (Sec. A.1.4 and Sec. A.1.5).

INACTIVE Course Options
The following options are available for INACTIVE courses by clicking the Actions button:

Download Progress (PDF)
This allows you to view a Progress Report for an inactive course.

Renew access to this course
This option allows you to renew access to an account by entering a new 20-character access code. The course will then appear under ACTIVE.

Delete from my account
Inactive course accounts may be deleted; they will then no longer be displayed in the Student Account Home.

A.1.3 Switching to a New Course

If you need to move an account into a new course, ALEKS will behave differently depending on when you make the switch.

If you switch into a new course **within 15 days of enrollment:**

- Your new course will appear in the ACTIVE section.
- Your old course will no longer appear (not even in the INACTIVE section).
- If you are switching into a course using the same ALEKS course product, your progress will be carried over.
- If you are switching into a different ALEKS course, you will be required to take a new Initial Assessment.

If you switch into a new course **after 15 days of enrollment:**

- Your new course will appear in the ACTIVE section.
- Your old course will appear in the INACTIVE section.
- If you are switching into a course using the same ALEKS course product, your progress will be carried over.
- If you are switching into a different ALEKS course, you will be required to take a new Initial Assessment.
A.1.4  Suspend Account

This feature is intended to provide additional flexibility in the student’s access to an already purchased subscription with ALEKS. The Suspend access to this class feature is used when a student has already purchased an access code and registered with ALEKS, but then decides to drop the course with the intention of taking it again at the next opportunity.

This feature can be used within a limited time after the student activates their account.

- 6-week access codes can be suspended within 7 days of activation OR if the account has less than 5 hours of use, whichever comes first.
- 11-week access codes can be suspended within 14 days of activation OR if the account has less than 8 hours of use, whichever comes first.
- 18-week, 2-semester, 3-quarter, and 52-week access codes can be suspended within 30 days of activation OR if the account has less than 10 hours of use, whichever comes first.

To suspend access to their class, students choose the action Suspend access to this class from the Actions drop-down menu.

After students select this option, they will be asked to confirm whether or not they wish to suspend the account. Once this feature has been activated, the system will suspend the account for a period of time equal to the length of the access code they purchased (6 weeks, 11, weeks, 18 weeks, etc.). At the end of this period the account will be reactivated automatically, and its time will begin to run. Once the account is reactivated, the student will have the full subscription length originally purchased.

Cancel Suspension. Should the student suspend their account and then need it to be reactivated, they will need to contact ALEKS Customer Support. If the suspension is cancelled, the time remaining for the access code will be recalculated from the original start date. Note that the Suspend feature can only be used once per account.

A.1.5  Leave of Absence

In contrast to the Suspend feature, the Leave of Absence feature applies only to 2-semester (40 week), 3-quarter (also 40 weeks), and 52-week access codes; it takes effect automatically after a certain number of weeks have passed since the access code was activated.

First Notification

20 weeks after the access code was used to activate the account, students will see a warning message informing them that their first 21 weeks of use will expire on a specified date. The leave will begin automatically 21 weeks after the account is activated.
Second Notification

When students log in after the 21st week, they will see another message informing them that the account is on hold and the date on which the account will automatically resume, if not manually reactivated.

If students choose to resume using the account prior to the specified automatic reactivation date, they will be asked to confirm the reactivation. Once that is confirmed, students will be given access for the appropriate length of time remaining on the access code.

A.2 Tutorial

![Figure A.3: The Answer Editor (Tutorial)](image)

After Registration, the ALEKS Tutorial will teach you how to enter your answers in ALEKS (Fig. A.3). There is plenty of feedback to help you complete it successfully. The Tutorial is not intended to teach accounting. It just trains you to use the ALEKS input tool (called the **Answer Editor**). Online help is also available while you are using ALEKS; just click the **Help** button, which gives you access to the sections of the Tutorial.

A.3 Assessments and Learning

A.3.1 Assessments

Instruction through ALEKS is guided by precise understanding of your knowledge of the subject. This information is obtained by assessments in which ALEKS asks you to solve a series of problems. (ALEKS’s estimate of your knowledge is also updated when you make progress in the Learning Mode.) Your Initial Assessment occurs immediately after the ALEKS Tutorial.
In some ALEKS Accounting courses your Initial Assessment may be optional based on ALEKS course settings. If you choose to skip this assessment, you will begin working in ALEKS with the most basic topics of the curriculum. If you take the assessment, you may be able to skip ahead to somewhat more advanced topics, depending on the knowledge you show in your responses. If you have any previous experience with Accounting, you may wish to take this assessment in order to move directly into material that is appropriate for you.

**NOTE.** Your instructor may require that the Initial Assessment be taken under supervision. **Don’t try to begin your Initial Assessment at home until you find out where your instructor wants you to take it.** Additional assessments may be scheduled for you by the instructor. These may or may not need to be supervised, depending on the instructor’s preference. ALEKS also prompts automatic re-assessments when you have spent a certain amount of time in ALEKS or have made a certain amount of progress.

### A.3.2 Results

Assessment results are presented in the form of a color-coded pie chart. Slices of the pie chart correspond to parts of the syllabus. The solidly colored part of a slice indicates how close you are to mastering that part of the syllabus; the lighter portion represents the material you have left to master.

### A.3.3 Learning Mode

![Figure A.4: Assessment Report](image-url)

Following the presentation of assessment results, ALEKS will introduce you to a pie chart navigation tool (**MyPie**) (Fig. A.4). By placing the mouse pointer over slices of
the pie, you can see which concepts you are now most ready to learn. Not all slices will contain concepts at any given time. They may have been mastered already, or work may need to be done in other slices before they become available. The concept you click on becomes your entry into the Learning Mode. ALEKS will help you to master that concept and add it to your pie.

A.3.4 Progress in the Learning Mode

In the Learning Mode, you are given problems based on the chosen topic. Additionally, you have access to explanations of how to solve the particular kind of problem and to a dictionary of concepts. Underlined terms are links to the Dictionary. Click on any term to get a complete definition. ALEKS will require a number of correct answers before it assumes that you have mastered the concept. When the topic is mastered, ALEKS will add the topic to your pie. At that point, a revised pie chart will be shown reflecting your new knowledge. You will be able to choose a new concept to begin. If you make mistakes, more correct answers may be required. If you tire of the topic and wish to choose another, you can click on MyPie near the top of the window. If you make repeated errors on a concept, the system will conclude that the concept was not mastered, and will offer you a new choice of other concepts.

A.3.5 Additional Features

All buttons described below are available in the Learning Mode. In the Assessment Mode, certain buttons may be temporarily inactive.

HELP
For online help with the use of the Answer Editor, click Help.

Course Forum
To participate in course discussions, click Course Forum.

Worksheet
To print out an individualized homework sheet based on your most recent work in ALEKS, use the Worksheet button.

Inbox
Your instructor can send you messages via ALEKS. You see new messages when you log on. You can also check for messages by clicking on Inbox (Sec. A.3.6). ALEKS provides a way to send your instructor a specific problem you are working on in ALEKS. Your instructor can choose to let you reply to messages as well.

Report
Any time you wish to look at your assessment reports, click on Report. Choose any date from the drop-down menu and click OK.
A.3. ASSESSMENTS AND LEARNING

This page gives you the option to forward your ALEKS messages to your email account. This page also shows the total number of hours you have spent using ALEKS.

To access any special resources posted to your course by your instructor, click on the Resources button. This button will only be available if resources have been posted to your course.

To end your ALEKS session and exit, click on your name (top right), and select Log out from the drop-down menu.

Clicking MyPie gives you a pie chart summarizing your current mastery. You can use this pie chart to choose a new concept.

To review past material, use the Review button.

To search the online Dictionary, click Dictionary. You can also click on hyperlinked terms in the ALEKS interface to access the Dictionary.

To access the online ALEKS Calculator, use the Calculator button. This button will be inactive for material where the use of a calculator is not appropriate. When this button is inactive, do not use any calculator.

To see the results of assignments you have taken in ALEKS or to begin a pending assignment, use the Assignments button. If assignments are currently available, you will see an orange burst on the Assignments button.

To access the Gradebook for your course, click on the Gradebook button.

To access the Calendar for your course, click on the Calendar button.

A.3.6 ALEKS Inbox

The Inbox allows you to send messages to your instructor if you need assistance with a topic or problem in ALEKS. To compose a message, click Compose. There is an option to include mathematical notation in your messages.

To include mathematical notation and illustrations:
1. Click the **math** tab at the right end of the tool bar. This switches you to the **Enhanced message editor**, with a robust set of math input tools.

2. Click on the **Graphs** tab for graphing tools, or on **Algebra, Trig, Matrix,** or **Stat** for symbolism specific to these areas.

While working in the Learning Mode, you can send a specific problem type to your instructor for assistance. This will include a link in the message, showing a screenshot of the practice problem that you see on your screen.

To attach a specific problem, make sure the practice problem is still on the screen, then:

1. Click on the **Inbox** link. This will take you into the ALEKS Message Center.
2. Click on the **Compose** button.
3. Below the body message section, check the box next to **Attach Page**.
4. Click on the **Send** button to send the message.

You also have an option to include attachments in your messages. The attachments can be up to 2MB in size.

### A.4 Guidelines for Effective Use

Please take note of the following important suggestions for successful use of ALEKS.

**Supplementary Materials**

You should have pencil and paper ready for all assessments and for use in the Learning Mode. Basic calculators should be used only when you are instructed to do so. (A basic calculator is part of ALEKS.)

**Assessments**

You should not ask for any help during assessments. Even explanations or rephrasing of problems are not permitted. If you receive help, ALEKS will get a wrong idea of what you are most ready to learn, and this will hold up your progress. If you are sure you don’t know the answer, click **I don’t know**.

**Learning Mode**

You should learn to use the special features of the Learning Mode, especially the explanations and the Dictionary.

**Review**

Whenever ALEKS suggests topics for you to review, you should review them. Spending a few minutes daily on such review will help you retain what you have learned and do well on reassessments.

**Regular Use**

Nothing is more important to your progress than regular use of ALEKS. Three hours per week is a recommended minimum; five or more are normal in many cases.
Appendix B

Syllabi in ALEKS

B.1 Accounting Cycle (Corp)

Basic Terminology

acct223 Types of accounts
acct001 Information classification into assets, liabilities, and change of equity
acct002 Information classification into revenue, expense, or other
acct004 Information classification into financial statements
acct003 Account classification into financial statements
acct007 Components of annual report

Basic Transactions and Financial Statements

acct008 Balancing the basic accounting equation
acct222 Basic structure of the Balance Sheet, the Income Statement, and the Statement of Changes in Retained Earnings
acct014 Effect of transactions on accounts
acct224 Effects of a transaction on assets, liabilities, and equity: Problem type 1
acct225 Effects of a transaction on assets, liabilities, and equity: Problem type 2
acct009 Changes to stockholders’ equity: Problem type 1
acct010 Changes to stockholders’ equity: Problem type 2
acct011 Completing a corporate balance sheet
acct012 Completing an income statement
acct013 Completing a retained earnings statement
acct301 Creating a basic income statement
acct302 Creating a basic equity statement
acct303 Creating a basic balance sheet
acct304 Basic tabular transaction

Journal Entries

acct016 Normal account balances
acct017 Trial balance errors
acct018 Basic journal entry with the step-through method
acct019 Journalization of transactions
acct020 Ending balances of accounts
Adjusting Entries

acct021 Adjusting entry calculations
acct022 Adjusting entries: Accruals
acct023 Adjusting entries with deferrals: Problem type 1
acct024 Adjusting entries with deferrals: Problem type 2
acct025 Property, plant, and equipment section of a balance sheet: Basic problem
acct026 Effects of adjusting entries on financial statements: Problem type 1
acct027 Effects of adjusting entries on financial statements: Problem type 2

Closing Process and Financial Statements

acct028 Permanent and temporary accounts
acct029 Closing entries
acct030 Effects of closing entries on account balances
acct031 Correcting entries
acct032 Reversing entries: Selecting which entries should be reversed
acct033 Reversing entries: Preparing a reversing entry
acct034 Creating a balance sheet with asset depreciation
acct035 Balance sheet subtotals
acct037 Balance sheet classification

Merchandising Accounting

acct036 Normal account balances for a retail company
acct037 Account classification for a retail company
acct038 Parts of the retail income statement
acct026 Merchandising: FOB Shipping point or Destination and Discount
acct039 Merchandising: Computing amount due
acct040 Merchandising: Computing income statement amounts
acct044 Merchandising: Closing entries
acct041 Seller’s retail entries: Problem type 1
acct042 Seller’s retail entries: Problem type 2
acct027 Merchandising: Amount received by seller with FOB Shipping point and freight prepaid
acct046 Seller’s retail entries: Problem type 3
acct043 Buyer’s retail entries: Problem type 1
acct045 Buyer’s retail entries: Problem type 2
acct047 Buyer’s retail entries: Problem type 3
acct048 Preparing a retail income statement

Advanced review topics

acct054 Cash and cash equivalents
acct078 Inventory costs
acct092 Income statement with periodic inventory: Problem type 2
acct095 Income statement with periodic inventory: Problem type 3
acct111 Scrapping an asset
acct112 Selling an asset
acct141 Revenue recognition: Basic questions
B.2 MBA Financial Accounting Cycle Review

Basic Terminology

-_accnt223 Types of accounts
-_accnt001 Information classification into assets, liabilities, and change of equity
-_accnt002 Information classification into revenue, expense, or other
-_accnt004 Information classification into financial statements
-_accnt003 Account classification into financial statements
-_accnt007 Components of annual report

Basic Transactions and Financial Statements

-_accnt008 Balancing the basic accounting equation
-_accnt222 Basic structure of the Balance Sheet, the Income Statement, and the Statement of Changes in Retained Earnings
-_accnt014 Effect of transactions on accounts
-_accnt224 Effects of a transaction on assets, liabilities, and equity: Problem type 1
-_accnt225 Effects of a transaction on assets, liabilities, and equity: Problem type 2
-_accnt009 Changes to stockholders’ equity: Problem type 1
-_accnt010 Changes to stockholders’ equity: Problem type 2
-_accnt011 Completing a corporate balance sheet
-_accnt012 Completing an income statement
-_accnt013 Completing a retained earnings statement
-_accnt031 Creating a basic income statement
-_accnt032 Creating a basic equity statement
-_accnt033 Creating a basic balance sheet
-_accnt034 Basic tabular transaction

Journal Entries

-_accnt016 Normal account balances
-_accnt017 Trial balance errors
-_accnt018 Basic journal entry with the step-through method
-_accnt019 Journalization of transactions
-_accnt020 Ending balances of accounts

Adjusting Entries

-_accnt021 Adjusting entry calculations
-_accnt022 Adjusting entries: Accruals
-_accnt023 Adjusting entries with deferrals: Problem type 1
-_accnt024 Adjusting entries with deferrals: Problem type 2
-_accnt025 Property, plant, and equipment section of a balance sheet: Basic problem
-_accnt026 Effects of adjusting entries on financial statements: Problem type 1
-_accnt027 Effects of adjusting entries on financial statements: Problem type 2

Closing Process and Financial Statements

-_accnt028 Permanent and temporary accounts
-_accnt029 Closing entries
APPENDIX B. SYLLABI IN ALEKS

acnt030 Effects of closing entries on account balances
acnt031 Correcting entries
acnt032 Reversing entries: Selecting which entries should be reversed
acnt033 Reversing entries: Preparing a reversing entry
acnt034 Creating a balance sheet with asset depreciation
acnt305 Balance sheet subtotals
acnt307 Balance sheet classification

Merchandising Accounting

acnt036 Normal account balances for a retail company
acnt037 Account classification for a retail company
acnt038 Parts of the retail income statement
acnt226 Merchandising: FOB Shipping point or Destination and Discount
acnt039 Merchandising: Computing amount due
acnt040 Merchandising: Computing income statement amounts
acnt044 Merchandising: Closing entries
acnt041 Seller’s retail entries: Problem type 1
acnt042 Seller’s retail entries: Problem type 2
acnt227 Merchandising: Amount received by seller with FOB Shipping point and freight prepaid
acnt046 Seller’s retail entries: Problem type 3
acnt043 Buyer’s retail entries: Problem type 1
acnt045 Buyer’s retail entries: Problem type 2
acnt047 Buyer’s retail entries: Problem type 3
acnt048 Preparing a retail income statement

Advanced review topics

acnt054 Cash and cash equivalents
acnt078 Inventory costs
acnt092 Income statement with periodic inventory: Problem type 2
acnt095 Income statement with periodic inventory: Problem type 3
acnt111 Scrapping an asset
acnt112 Selling an asset
acnt141 Revenue recognition: Basic questions

B.3 Accounting Cycle (Sole)

Basic Terminology

acnt223 Types of accounts
acnt001 Information classification into assets, liabilities, and change of equity
acnt002 Information classification into revenue, expense, or other
acnt004 Information classification into financial statements
acnt003 Account classification into financial statements
acnt007 Components of annual report

Basic Transactions and Financial Statements

acnt008 Balancing the basic accounting equation
acnt222 Basic structure of the Balance Sheet, the Income Statement, and the Equity Statement
B.3. ACCOUNTING CYCLE (SOLE)

acct014 Effect of transactions on accounts
acct224 Effects of a transaction on assets, liabilities, and equity: Problem type 1
acct225 Effects of a transaction on assets, liabilities, and equity: Problem type 2
acct009 Changes to owner’s equity: Problem type 1
acct010 Changes to owner’s equity: Problem type 2
acct011 Completing a sole proprietorship balance sheet
acct012 Completing an income statement
acct013 Completing an owner’s equity statement
acct301 Creating a basic income statement
acct302 Creating a basic equity statement
acct303 Creating a basic balance sheet
acct304 Basic tabular transaction

Journal Entries

acct016 Normal account balances
acct017 Trial balance errors
acct018 Basic journal entry with the step-through method
acct019 Journalization of transactions
acct020 Ending balances of accounts

Adjusting Entries

acct021 Adjusting entry calculations
acct022 Adjusting entries: Accruals
acct023 Adjusting entries with deferrals: Problem type 1
acct024 Adjusting entries with deferrals: Problem type 2
acct025 Property, plant, and equipment section of a balance sheet: Basic problem
acct026 Effects of adjusting entries on financial statements: Problem type 1
acct027 Effects of adjusting entries on financial statements: Problem type 2

Closing Process and Financial Statements

acct028 Permanent and temporary accounts
acct029 Closing entries
acct030 Effects of closing entries on account balances
acct031 Correcting entries
acct032 Reversing entries: Selecting which entries should be reversed
acct033 Reversing entries: Preparing a reversing entry
acct034 Creating a balance sheet with asset depreciation
acct305 Balance sheet subtotals
acct307 Balance sheet classification

Merchandising Accounting

acct036 Normal account balances for a retail company
acct037 Account classification for a retail company
acct038 Parts of the retail income statement
acct226 Merchandising: FOB Shipping point or Destination and Discount
acct039 Merchandising: Computing amount due
acct040 Merchandising: Computing income statement amounts
acct044 Merchandising: Closing entries
Appendix B. Syllabi in Aleks

Accnt041 Seller's retail entries: Problem type 1
Accnt042 Seller's retail entries: Problem type 2
Accnt227 Merchandising: Amount received by seller with FOB Shipping point and freight prepaid
Accnt046 Seller's retail entries: Problem type 3
Accnt043 Buyer's retail entries: Problem type 1
Accnt045 Buyer's retail entries: Problem type 2
Accnt047 Buyer's retail entries: Problem type 3
Accnt048 Preparing a retail income statement

Advanced Review Topics

Accnt054 Cash and cash equivalents
Accnt078 Inventory costs
Accnt092 Income statement with periodic inventory: Problem type 2
Accnt095 Income statement with periodic inventory: Problem type 3
Accnt111 Scrapping an asset
Accnt112 Selling an asset
Accnt141 Revenue recognition: Basic questions

B.4 Financial Accounting (Corp)

Accounting Cycle

Accnt223 Types of accounts
Accnt001 Information classification into assets, liabilities, and change of equity
Accnt002 Information classification into revenue, expense, or other
Accnt004 Information classification into financial statements
Accnt003 Account classification into financial statements
Accnt008 Balancing the basic accounting equation
Accnt222 Basic structure of the Balance Sheet, the Income Statement, and the Statement of Changes in Retained Earnings
Accnt014 Effect of transactions on accounts
Accnt224 Effects of a transaction on assets, liabilities, and equity: Problem type 1
Accnt225 Effects of a transaction on assets, liabilities, and equity: Problem type 2
Accnt009 Changes to stockholders' equity: Problem type 1
Accnt010 Changes to stockholders' equity: Problem type 2
Accnt011 Completing a corporate balance sheet
Accnt012 Completing an income statement
Accnt013 Completing a retained earnings statement
Accnt301 Creating a basic income statement
Accnt302 Creating a basic equity statement
Accnt303 Creating a basic balance sheet
Accnt304 Basic tabular transaction
Accnt007 Components of annual report
Accnt016 Normal account balances
Accnt017 Trial balance errors
Accnt018 Basic journal entry with the step-through method
Accnt019 Journalization of transactions
Accnt020 Ending balances of accounts
Accnt021 Adjusting entry calculations
Accnt022 Adjusting entries: Accruals
Accnt023 Adjusting entries with deferrals: Problem type 1
Accnt024 Adjusting entries with deferrals: Problem type 2
Accnt025 Property, plant, and equipment section of a balance sheet: Basic problem
Accnt026 Effects of adjusting entries on financial statements: Problem type 1
B.4. FINANCIAL ACCOUNTING (CORP)

acct027 Effects of adjusting entries on financial statements: Problem type 2
acct028 Permanent and temporary accounts
acct029 Closing entries
acct030 Effects of closing entries on account balances
acct031 Correcting entries
acct032 Reversing entries: Selecting which entries should be reversed
acct033 Reversing entries: Preparing a reversing entry
acct034 Creating a balance sheet with asset depreciation
acct305 Balance sheet subtotals
acct307 Balance sheet classification

Cash and Cash Equivalent

acct054 Cash and cash equivalents
acct055 Principles of internal control
acct056 Principles of effective cash management
acct052 Bank reconciliation items: Problem type 1
acct053 Bank reconciliation items: Problem type 2
acct057 Bank reconciliations: Problem type 1
acct058 Bank reconciliations: Problem type 2
acct059 Bank reconciliations: Deposits in transit and outstanding checks
acct063 Preparing a bank reconciliation
acct062 Journal entries for bank reconciliations
acct060 Petty cash: Cash short and over
acct061 Journal entries for petty cash
acct049 Identifying special journals
acct050 Special journals: Buyer’s entries
acct051 Special journals: Seller’s entries

Merchandising and Inventory

acct036 Normal account balances for a retail company
acct037 Account classification for a retail company
acct226 Merchandising: FOB Shipping point or Destination and Discount
acct039 Merchandising: Computing amount due
acct043 Buyer’s retail entries: Problem type 1
acct045 Buyer’s retail entries: Problem type 2
acct047 Buyer’s retail entries: Problem type 3
acct041 Seller’s retail entries: Seller’s retail entries: Problem type 1
acct042 Seller’s retail entries: Problem type 2
acct227 Merchandising: Amount received by seller with FOB Shipping point and freight prepaid
acct046 Seller’s retail entries: Problem type 3
acct038 Parts of the retail income statement
acct040 Merchandising: Computing income statement amounts
acct048 Preparing a retail income statement
acct044 Merchandising: Closing entries
acct078 Inventory costs
acct084 Merchandise inventory calculation: FOB and consigned goods
acct080 Inventory errors: Problem type 1
acct082 Inventory errors: Problem type 2
acct079 FIFO versus LIFO
acct087 Use of perpetual inventory system for merchandise inventory calculation
acct085 Use of periodic inventory system for merchandise inventory calculation: Problem type 1
acct086 Use of periodic inventory system for merchandise inventory calculation: Problem type 2
acct093 Periodic inventory: Buyer’s entries
acct094 Perpetual inventory: Adjusting the Merchandise Inventory account
acct089 Merchandise inventory: Lower of cost or market method
acct090 Inventory estimation techniques: Gross profit method
APPENDIX B. SYLLABI IN ALEKS

Inventory estimation techniques: Retail inventory method
Income statement with periodic inventory: Problem type 1
Income statement with periodic inventory: Problem type 2
Income statement with periodic inventory: Problem type 3

Receivables

Revenue recognition: Basic questions
Revenue recognition: Percentage of completion
Revenue recognition: Installment sales
Maturity dates
Computing interest on a promissory note
Computing principal, interest rate, or term of a promissory note
Notes receivable: Basic journal entry
Notes receivable: Recording accrued interest
Bad debts expense: Direct write-off method
Bad debts expense: Percentage of sales method
Bad debts expense: Balance sheet approach
Allowance method: Journal entry
Accounts receivable in the balance sheet
Changes to net realizable value
Customer’s discounted notes receivable: Journal entry
Credit cards: Journal entry
Factoring receivables

Property, Plant, and Equipment

Acquisition of an asset
Acquisition of an asset: Date to compute depreciation
Revenue versus capital expenditures
Revenue versus capital expenditures: Journal entry
Straight-line depreciation of asset purchased at beginning of year
Double-declining-balance depreciation of asset purchased at beginning of year
Sum-of-the-years’-digits depreciation of asset purchased at beginning of year
Straight-line depreciation of asset purchased during the year
Units-of-production depreciation of asset purchased during the year
Double-declining-balance depreciation of asset purchased during the year
Sum-of-the-years’-digits depreciation of asset purchased during the year
Revision of depreciation
Scraping an asset
Selling an asset
Trading in a plant asset for another
Amortization calculations
Goodwill estimation: Capitalization of excess earnings method
Depletion
Property, plant, and equipment section of balance sheet: Advanced problem

Current Liabilities, Payroll, Warranties, and Discounted Notes

Accounting for contingencies
Sales tax: Basic problem
Sales tax: Advanced problem
Sales tax: Journal entry
Interest computation with notes payable: Problem type 1
Interest computation with notes payable: Problem type 2
B.4. **FINANCIAL ACCOUNTING (CORP)**

acct132 Accounting for accrued interest payable: Journal entries
acct133 Accounting for issued note payable on account: Journal entry
acct134 Accounting for short-term note payable: Journal entry
acct123 Payroll: Net pay
acct124 Payroll: Employer’s payroll tax computation
acct128 Payroll: Journal entry
acct129 Employer’s payroll tax: Journal entry
acct125 Warrants: One year
acct126 Warrants: Multiple years
acct130 Accounting for warranties: Journal entry
acct135 Accounting for discounted notes payable: Journal entry
acct136 Balance sheet presentation: Discounted notes payable
acct137 Balance sheet effects of discounted notes payable: Problem type 1
acct138 Balance sheet effects of discounted notes payable: Problem type 2

**Partnerships**

acct144 Calculation of profit and loss in a partnership: Basic problem type 1
acct145 Calculation of profit and loss in a partnership: Basic problem type 2
acct146 Calculation of profit and loss in a partnership: Advanced problem type 1
acct147 Calculation of profit and loss in a partnership: Advanced problem type 2
acct148 Calculation of ending capital balances in a partnership: Problem type 1
acct149 Calculation of ending capital balances in a partnership: Problem type 2
acct150 Liquidation, gain on sale of partnership
acct151 Liquidation, loss on sale of partnership
acct152 Liquidation, loss on sale of partnership: Deficit balance in partner account
acct153 Partnership admission: Bonus to existing partners
acct154 Partnership admission: Bonus to new partner
acct155 Partnership admission: Purchasing an interest from the existing partners
acct156 Partnership retirement: Bonus to remaining partners
acct157 Partnership retirement: Bonus to retiring partner
acct158 Partnership retirement: Selling an interest to the existing partners

**Corporate Balance Sheet, Income Statement, and Analysis**

acct159 Annual dividends for preferred stock
acct160 Preferred stock and common stock dividends
acct164 Treasury stock entries
acct163 Issuance of stock entries
acct165 Issuing stock in exchange for fixed assets
acct161 Stockholders’ equity: General questions
acct162 Stockholders’ equity: Book value per share
acct167 Preparation of stockholders’ equity section of the balance sheet
acct166 Preparation of corrected stockholders’ equity section of the balance sheet
acct169 Weighted average of common shares outstanding
acct170 Earnings per share
acct171 Par values after a stock split
acct172 Cash dividend entries
acct173 Stock dividend entries
acct168 Income statement classification
acct174 Financial statement effects of various types of dividends
acct175 Preparing a corporate income statement
acct176 Preparing a statement of retained earnings
acct212 Ratio analysis: Liquidity ratios
acct213 Ratio analysis: Profitability ratios
acct214 Ratio analysis: Solvency ratios
acct216 Financial statement analysis: Horizontal analysis
acct217 Financial statement analysis: Vertical analysis
Bonds, Investments, and Cash Flow

acct177 Cash received from issuance of bonds
acct178 Computing the amount of discount or premium of bonds
acct179 Computing the carrying value of bonds
acct180 Computing the semiannual interest payment of bonds
acct182 Selling price of a bond: Problem type 1
acct183 Selling price of a bond: Problem type 2
acct186 Issuance of bonds: Journal entry
acct187 Bonds issued between interest dates: Journal entry
acct181 Straight-line method of amortization of bonds
acct184 Effective-interest method of amortization of bonds
acct185 Effective-interest method vs. straight-line method of amortization of bonds
acct188 Straight-line method of amortization of bonds: Journal entry
acct189 Effective-interest method of amortization of bonds: Journal entry
acct190 Retirement of bonds
acct191 Conversion of bonds
acct192 Balance sheet presentation of bonds
acct193 Marketable securities: Computing unrealized gains and losses
acct194 Cost method entries
acct195 Equity method entries
acct196 Investment in bonds entries: Bond purchase
acct197 Investment in bonds entries: Receipt of interest
acct198 Computing unrealized gains and losses for marketable securities: Journal entry
acct199 Financial statement effects of unrealized gains and losses for marketable securities
acct218 Cost method: Financial statement effects
acct219 Equity method: Financial statement effects
acct200 Statement of cash flows transaction classification
acct201 Transactions affecting cash flow, net income, or both
acct203 Statement of cash flows: Operating activities, direct method
acct202 Statement of cash flows: Operating activities, indirect method
acct209 Preparation of statement of cash flows: Indirect method
acct220 Statement of cash flows: Effects of selling equipment
acct204 Computing cash from investing activities
acct205 Computing cash from financing activities
acct206 Statement of cash flows: Property, plant, and equipment

B.5 Prep. for MBA Financial Reporting

Accounting Cycle

acct223 Types of accounts
acct001 Information classification into assets, liabilities, and change of equity
acct002 Information classification into revenue, expense, or other
acct004 Information classification into financial statements
acct003 Account classification into financial statements
acct008 Balancing the basic accounting equation
acct222 Basic structure of the Balance Sheet, the Income Statement, and the Statement of Changes in Retained Earnings
acct014 Effect of transactions on accounts
acct224 Effects of a transaction on assets, liabilities, and equity: Problem type 1
acct225 Effects of a transaction on assets, liabilities, and equity: Problem type 2
acct009 Changes to stockholders’ equity: Problem type 1
acct010 Changes to stockholders’ equity: Problem type 2
acct011 Completing a corporate balance sheet
acct012 Completing an income statement
acct013 Completing a retained earnings statement
B.5. PREP. FOR MBA FINANCIAL REPORTING

accent301 Creating a basic income statement
accent302 Creating a basic equity statement
accent303 Creating a basic balance sheet
accent304 Basic tabular transaction
accent007 Components of annual report
accent016 Normal account balances
accent017 Trial balance errors
accent018 Basic journal entry with the step-through method
accent019 Journalization of transactions
accent020 Ending balances of accounts
accent021 Adjusting entry calculations
accent022 Adjusting entries: Accruals
accent023 Adjusting entries with deferrals: Problem type 1
accent024 Adjusting entries with deferrals: Problem type 2
accent025 Property, plant, and equipment section of a balance sheet: Basic problem
accent026 Effects of adjusting entries on financial statements: Problem type 1
accent027 Effects of adjusting entries on financial statements: Problem type 2
accent028 Permanent and temporary accounts
accent029 Closing entries
accent030 Effects of closing entries on account balances
accent031 Correcting entries
accent032 Reversing entries: Selecting which entries should be reversed
accent033 Reversing entries: Preparing a reversing entry
accent034 Creating a balance sheet with asset depreciation
accent035 Balance sheet subtotals
accent037 Balance sheet classification

Cash and Cash Equivalent

accent054 Cash and cash equivalents
accent055 Principles of internal control
accent056 Principles of effective cash management
accent052 Bank reconciliation items: Problem type 1
accent053 Bank reconciliation items: Problem type 2
accent057 Bank reconciliations: Problem type 1
accent058 Bank reconciliations: Problem type 2
accent059 Bank reconciliations: Deposits in transit and outstanding checks
accent063 Preparing a bank reconciliation
accent062 Journal entries for bank reconciliations
accent060 Petty cash: Cash short and over
accent061 Journal entries for petty cash
accent049 Identifying special journals
accent050 Special journals: Buyer’s entries
accent051 Special journals: Seller’s entries

Merchandising and Inventory

accent036 Normal account balances for a retail company
accent037 Account classification for a retail company
accent226 Merchandising: FOB Shipping point or Destination and Discount
accent039 Merchandising: Computing amount due
accent043 Buyer’s retail entries: Problem type 1
accent045 Buyer’s retail entries: Problem type 2
accent047 Buyer’s retail entries: Problem type 3
accent041 Seller’s retail entries: Problem type 1
accent042 Seller’s retail entries: Problem type 2
accent227 Merchandising: Amount received by seller with FOB Shipping point and freight prepaid
accent046 Seller’s retail entries: Problem type 3
acnt038 Parts of the retail income statement
acnt040 Merchandising: Computing income statement amounts
acnt048 Preparing a retail income statement
acnt044 Merchandising: Closing entries
acnt078 Inventory costs
acnt084 Merchandise inventory calculation: FOB and consigned goods
acnt089 Inventory errors: Problem type 1
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acnt085 Use of periodic inventory system for merchandise inventory calculation: Problem type 1
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acnt093 Periodic inventory: Buyer’s entries
acnt094 Perpetual inventory: Adjusting the Merchandise Inventory account
acnt089 Merchandise inventory: Lower of cost or market method
acnt090 Inventory estimation techniques: Gross profit method
acnt091 Inventory estimation techniques: Retail inventory method
acnt098 Income statement with periodic inventory: Problem type 1
acnt092 Income statement with periodic inventory: Problem type 2
acnt095 Income statement with periodic inventory: Problem type 3

Receivables

acnt141 Revenue recognition: Basic questions
acnt142 Revenue recognition: Percentage of completion
acnt143 Revenue recognition: Installment sales
acnt064 Maturity dates
acnt065 Computing interest on a promissory note
acnt066 Computing principal, interest rate, or term of a promissary note
acnt071 Notes receivable: Basic journal entry
acnt073 Notes receivable: Recording accrued interest
acnt067 Bad debts expense: Direct write-off method
acnt068 Bad debts expense: Percentage of sales method
acnt069 Bad debts expense: Balance sheet approach
acnt070 Allowance method: Journal entry
acnt076 Accounts receivable in the balance sheet
acnt077 Changes to net realizable value
acnt072 Customer’s discounted notes receivable: Journal entry
acnt074 Credit cards: Journal entry
acnt075 Factoring receivables

Property, Plant, and Equipment

acnt096 Acquisition of an asset
acnt097 Acquisition of an asset: Date to compute depreciation
acnt098 Revenue versus capital expenditures
acnt116 Revenue versus capital expenditures: Journal entry
acnt099 Straight-line depreciation of asset purchased at beginning of year
acnt101 Double-declining-balance depreciation of asset purchased at beginning of year
acnt102 Sum-of-the-years’-digits depreciation of asset purchased at beginning of year
acnt103 Straight-line depreciation of asset purchased during the year
acnt104 Units-of-production depreciation of asset purchased during the year
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acct036 Normal account balances for a retail company
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Accounting Cycle

B.7. Financial Accounting (Sole)

Accounting Cycle

Cash and Cash Equivalent

Cash and Cash Equivalent
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acnt036 Normal account balances for a retail company
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acnt039 Merchandising: Computing amount due
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acnt078 Inventory costs
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acnt080 Inventory errors: Problem type 1
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