

Banner Student Self-Service Release Guide

*Release 8.4.1
September 2010*



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Revision History Log

Publication Date	Summary
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September 2010	New version that supports Banner Student Self-Service 8.4.1 software.
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Introduction

This release guide documents Release 8.4.1 of the Banner® Student Self-Service System. Release 8.4.1 includes enhancements and problem resolutions.

Enhancements for 8.4.1

This document describes the following enhancements, which are new for Release 8.4.1.

Registration Prerequisite Checking using DegreeWorks

DegreeWorks software can be used with Banner prerequisite checking in Catalog, Schedule, and Registration. This is optional functionality that can be turned on as needed using a rule on GTVSDAX. DegreeWorks version DW4.0.7 supports this functionality.

Miscellaneous Enhancement - Discounted Courses

Students are now prevented from dropping discounted courses in Banner Self-Service, when discounted courses are used with Banner Flexible Registration.

Regulatory Update - HEOA Bookstore Access

Institutions can now provide information on class materials and associated costs during registration. Links in the Catalog and Schedule modules in Banner Student Self-Service and Banner Faculty and Advisor Self-Service are used to access a new Bookstore Information Web page. Students and faculty can use the new page to access selected bookstore providers and query the required materials.



1 Registration Prerequisite Checking using DegreeWorks - Functional



Overview

This section discusses using the DegreeWorks software with Banner prerequisite checking in Catalog, Schedule, and Registration. Course descriptions and prerequisite messages can be viewed in Self-Service.

Please see the *Banner Student 8.4.1 Release Guide* and the *Banner Faculty and Advisor Self-Service 8.4.1 Release Guide* for more information.

Changed Web pages

The following Web pages have been modified for this enhancement.

Detailed Course Information (bwckctlg.p_disp_course_detail)

This page will now display prerequisite descriptions from DegreeWorks and associated prerequisite error messages.

Detailed Class Information (bwckschd.p_disp_detail_sched)

This page will now display prerequisite descriptions from DegreeWorks and associated prerequisite error messages.

Add or Drop Classes (bwskfreq.P_AddDrpCrse)

This page will now display prerequisite descriptions from DegreeWorks and associated prerequisite error messages.



2 Registration Prerequisite Checking using DegreeWorks - Technical



Changed packages

The following packages have been modified to display DegreeWorks prerequisite descriptions and associated prerequisite error messages on Self-Service pages.

- BWCKCTLG/BWCKCTL1
- BWCKSAM1
- BWCKSCHD/BWCKSCH1

The BWCKCMPL package has been modified to call SFKCOMM instead of SFKPIPE.



3 Miscellaneous Enhancement



Discounted courses

Modifications have been made in Banner Student Self-Service, Banner Faculty and Advisor Self-Service and Banner Student for discount processing used with Banner Flexible Registration. Students are now prevented from dropping discounted courses in Banner Self-Service.

Please refer to the *Banner Student 8.4.1 Release Guide* for more information.

Changed Self-Service packages

The following common Self-Service packages have been modified in Banner Student Self-Service and Banner Faculty and Advisor Self-Service.

BWCKLIBS

Changes were made related to preventing dropping courses with discounts through Banner Self-Service.

BWCKLIB1

Changes were made related to preventing dropping courses with discounts through Banner Self-Service.

BWCKREG1

Changes were made related to preventing dropping courses with discounts through Banner Self-Service.



4 Regulatory Update



HEOA bookstore access

The Higher Education Opportunity Act (HEOA) requires institutions to publish ISBN numbers for class materials, so students can see what is needed and how much it will cost as they are selecting their courses for registration. Links have been added to the Catalog and Schedule modules in Banner Student Self-Service and Banner Faculty and Advisor Self-Service to access a new Bookstore Information Web page. Students and faculty can use the new page to access selected bookstore providers and query the required materials. You can add internal links to the new Web page to point to your institution's bookstore or external links to point to, for example, Amazon or Barnes & Noble. New GTVSDAX rules are delivered to turn the processing on and off. Web Tailor can be used to customize link text information as needed.

Warning

This enhancement *supports* the HEOA requirements. However, it is *not* a final code solution. You *must* implement your institution's code solution for the bookstore connection to attain final HEOA compliance. The new Web page is a shell page that contains built-in examples your site developers can use to complete the link to the bookstore Website of your choice. ■

New GTVSDAX rules

Two new rules have been added to activate bookstore processing from the Catalog and/or Schedule modules in Self-Service. The rules are delivered by the `sgtvsdaxi_08040004.sql` script.

You must turn on either the Catalog rule (*HEOACTLG*) or the Schedule rule (*HEOASCHD*) to use the bookstore processing. You can also turn on both rules if you choose.

External Code	Internal Code	Internal Code Sequence Number	Internal Code Group	Description	Activity Date
Y	HEOACTLG	1	HEOACTLG	HEOA bookstore catalog link	Sysdate
Y	HEOASCHD	1	HEOASCHD	HEOA bookstore schedule link	Sysdate

New Web Tailor records

New records have been added for the `bwckbook.sql` package. They can be used to update the **Bookstore(change me)** link in the Catalog and Schedule modules in Self-Service and the information text for the Bookstore Information page (`bwckbook.site`).

Seq #	Label	Source	Information Text
1	Default	Local	This is the default text
1	OPT1	Local	This is option #1 text. The bookstore website is external to Banner Web.
1	INTERNAL_URL_TEXT	Local	Bookstore(change me)
1	EXTERNAL_URL_TEXT	Local	Proceed to Follet Website for Books (example; change me).

Use the Reorder or Customize Information Text page (`twbkwinf.P_ReorderPgInfoText`) in Web Tailor to modify the Bookstore Information page (`bwckbook.site`).

- The *Default* label is delivered as *This is the default text*. It will only be displayed on the Bookstore Information page (`bwckbook.site`) when the *OPT1* label is null, and no internal or external links are found.
- The *OPT1* label is delivered as *This is option #1 text. The bookstore website is external to Banner Web*. It will be displayed on the Bookstore Information page (`bwckbook.site`).

You can use this label to toggle between a default label and other options as you choose. The Web Tailor text can be used to update or modify the verbiage on the Web page without the need to maintain the text in the coded package.

- The *INTERNAL_URL_TEXT* label is delivered as *Bookstore(changeme)*. It will be displayed on these pages:
 - Catalog Entries page (`bwckctlg.p_display_courses`)
 - Detailed Course Information page (`bwckctlg.p_disp_course_detail`)

- **Class Schedule Listing page** (bwckctlg.p_disp_listcrse or bwckschd.p_get_crse_unsec)
- **Detailed Class Information page** (bwckschd.p_disp_detail_sched)

This is used for an internal site such as your institution's campus bookstore on your intranet.

- The *EXTERNAL_URL_TEXT* label is delivered as *Proceed to Follet Website for Books (example; change me)*. It will be displayed on the Bookstore Information page (bwckbook.site). This is used for an external site such as Amazon or Barnes & Noble.



Note

You can use both internal and external links on the Bookstore Information page (bwckbook.site). You can also add extra Web Tailor records to point to as many providers as you choose. ■

New Web page

A new Web page has been added to Banner Student Self-Service and Banner Faculty and Advisor Self-Service. This satisfies RPE #1-D5783P for Banner Student Self-Service and RPE #1-D5783R for Banner Faculty and Advisor Self-Service.

Bookstore Information page (bwckbook.site)

This page is used to query and display bookstore materials for selected courses in the Catalog and Schedule modules in Self-Service. It displays links to bookstores chosen by your institution.

This page can be accessed using the **Bookstore(change me)** link from the following pages:

- **Catalog Entries page** (bwckctlg.p_display_courses)
- **Detailed Course Information page** (bwckctlg.p_disp_course_detail)
- **Class Schedule Listing page** (bwckctlg.p_disp_listcrse or bwckschd.p_get_crse_unsec)
- **Detailed Class Information page** (bwckschd.p_disp_detail_sched)

This page is a shell Web page. It is a partial solution for accessing bookstore information and that must be completed by your institution to access the bookstore providers of your choice. The page contains coded examples of how to link your institution to a bookstore provider. Links on this page that you create will indicate that students should proceed to one or more specific Websites to access the bookstore information. The sample code is show below.

Sample links are provided, such as:

Proceed to the Follet WebSite for Books (example; change me).

 **Note**

The `lv_ext_url_txt` code appears twice in the code below to show two sample links. Your developer can remove the link that is not needed. ■

Here is the sample code you can use to finish the Web page at your institution.

```
--
-- START BOOKSTORE. Your code goes here.
--
-- EXAMPLE 1 : URL Example.
--
-- The example uses Follet example; if using them for bookstore, they
-- should provide you with a bookstore ID number.
--
lv_id := '123456';
--
-- The URL for the bookstore is customizable via WebTailor; Allows
-- end user to change link text without recompiling.
--
IF BOOKSTORE_URL_TXT IS NOT NULL THEN
    lv_ext_url_txt := BOOKSTORE_URL_TXT;
END IF;

twbkfrmt.P_PrintText (
    twbkfrmt.f_printanchor (
        curl => twbkfrmt.f_encodeurl (
            'http://www.bkstr.com/webapp/wcs/stores/servlet/
            booklookServlet' ||
            '?bookstore_id-1=' ||
            twbkfrmt.f_encode (lv_id) ||
            '&term_id-1=' ||
            twbkfrmt.f_encode (p_term_in) ||
            '&crn-1=' ||
            twbkfrmt.f_encode(p_crse_num_in)
        ),
        ctext =>G$_NLS.FormatMsg('x',
            'SQL',
            lv_ext_url_txt
        ),
        ctarget => '_blank'
    )
);
--
```

```

-- END EXAMPLE1
--
HTP.br;
HTP.br;
--
-- EXAMPLE 2 : Form Submit Example.
--
HTP.formopen('http://www.bkstr.com/webapp/wcs/stores/servlet/
booklookServlet', 'POST', cattributes=>'NAME="BOOK"');
    twbkfrmt.P_FormHidden ('bookstore_id-1','123456');
    twbkfrmt.p_FormHidden ('term_id-1',p_term_in);
    twbkfrmt.P_FormHidden ('crn-1',p_crse_num_in);

    twbkfrmt.p_tabledataopen;
        twbkfrmt.p_tabledata(
            twbkfrmt.f_printtext(

twbkfrmt.f_PrintAnchor(twbkfrmt.f_encodeurl('http://www.bkstr.com/
webapp/wcs/stores/servlet/booklookServlet'),
    ctext =>G$_NLS.FormatMsg('x', 'SQL', lv_ext_url_txt),
    cattributes => 'OnClick="javascript:
BOOK.submit();return false"')
        )
    );
twbkfrmt.p_tabledataclose;
--
-- END EXAMPLE 2
--
-- END BOOKSTORE.

```

Changed Web pages

The following pages have been modified.

Catalog Entries (bwckctlg.p_display_courses)

This page includes a new link to the Bookstore Information page ([bwckbook.site](#)). Use the **Bookstore(change me)** link displayed in each catalog entry to access the Bookstore Information page and link to a bookstore to query materials for that course/section.

Detailed Course Information ([bwckctlg.p_disp_course_detail](#))

This page includes a new link to the Bookstore Information page ([bwckbook.site](#)). Use the **Bookstore(change me)** link displayed in each course entry to access the Bookstore Information page and link to a bookstore to query materials for that course/section.

Class Schedule Listing ([bwckctlg.p_disp_listcrse](#) or [bwckschd.p_get_crse_unsec](#))

This page includes a new link to the Bookstore Information page ([bwckbook.site](#)). Use the **Bookstore(change me)** link displayed in each section entry to access the Bookstore Information page and link to a bookstore to query materials for that course/section.

Detailed Class Information ([bwckschd.p_disp_detail_sched](#))

This page includes a new link to the Bookstore Information page ([bwckbook.site](#)). Use the **Bookstore(change me)** link displayed in each class entry to access the Bookstore Information page and link to a bookstore to query materials for that course/section.

New package and package body

A new common package and package body have been added.

[bwckbook0.sql/bwckbook1.sql](#)

The package and package body are used to access and display the Bookstore Information page ([bwckbook.site](#)) and the selected bookstore provider links for your institution.

Changed packages

The following packages have been modified.

[bwckctl1.sql](#)

This package has been updated to display the new **Bookstore(change me)** link to access the bookstore information.

This link is display only. The link text can *only* be changed on the Bookstore Information page ([bwckbook.site](#)) using Web Tailor.

bwcksch1.sql

This package has been updated to display the new **Bookstore(change me)** link to access the bookstore information.

This link is display only. The link text can *only* be changed on the Bookstore Information page (`bwckbook.site`) using Web Tailor.

Setup and processing

To use the bookstore processing, perform the following steps.

1. Add code to the new Bookstore Information page (`bwckbook.site`) to complete the link to the selected bookstore provider.

Examples of code are contained in the new Web page. You can add links to as many providers as you wish, such as your institution's campus bookstore, a national chain, and/or an online provider.

2. Turn on either or both of the two new GTVSDAX rules in Banner General.
 - The *HEOACTLG* rule is used to activate the HEOA bookstore Catalog link.
 - The *HEOASCHD* rule is used to activate the HEOA bookstore Schedule link.
3. Customize the information text and links on the Bookstore Information page (`bwckbook.site`) using Web Tailor.

- 3.1. Update the *Default* label text. The *Default* label is delivered as *This is the default text*.

It will only be displayed on the Bookstore Information page (`bwckbook.site`) when the *OPT1* label is null, and no internal or external links are found.

- 3.2. Update the *OPT1* label text. The *OPT1* label is delivered as *This is option #1 text. The bookstore website is external to Banner Web*.

Use this label to toggle between a default label and other options as you choose. The Web Tailor text can be used to update or modify the verbiage on the Web page without the need to maintain the text in the coded package.

- 3.3. Update the *INTERNAL_URL_TEXT* label to describe access to selected internal (campus) bookstore providers. The *INTERNAL_URL_TEXT* label is delivered as *Bookstore(change me)*.

For example, you could change the information text item for the link to read *Link to Campus Bookstore*.

 **Note**

If you omit or delete the name of the new link, the default text “Bookstore” will be used as the URL text. ■

- 3.4. Update the *EXTERNAL_URL_TEXT* label to describe access to selected external bookstore providers. The *EXTERNAL_URL_TEXT* label is delivered as *Proceed to Follet Website for Books (example; change me)*.

For example, you could change the information text item for the link to read *Proceed to the ABC Website for books*.

4. Use the **Bookstore(change me)** link from the Catalog and Schedule Self-Service pages to display the Bookstore Information page (*bwckbook.site*) and access your selected bookstore providers you have.

The **Bookstore(change me)** link is displayed on the following pages in Self-Service:

- Catalog Entries page (*bwckctlg.p_display_courses*)
 - Detailed Course Information page (*bwckctlg.p_disp_course_detail*)
 - Class Schedule Listing page (*bwckctlg.p_disp_listcrse* or *bwckschd.p_get_crse_unsec*)
 - Detailed Class Information page (*bwckschd.p_disp_detail_sched*)
5. The Catalog and Schedule page links send the following parameters to the Bookstore Information page (*bwckbook.site*): Term, Subject Code, Course Reference Number, and Sequence Number (section number).

5 Problem Resolutions



The following problem resolutions are delivered with this release.

 **Note**

For comprehensive and detailed problem, impact, and resolution information for all defects corrected in this release, refer to the supplemental problem resolutions file (stuss80401resolutions.txt) delivered along with your release guide. The information in this text file is extracted directly from the Customer Support Center just prior to release of the product and may include additional defects that were resolved after this document was finalized. ■

Object	Number	Summary
BWCKCPM1	#1-B2LXVX	The term was not correctly posted to student's account in Banner Accounts Receivable when a credit card payment was used.
BWCKCRS1	#1-BH85NG	When changes were made in Student Self-Service release 8.4 for student centric periods, the Concise Student Schedule page (bwskrse.P_CrseSchdDet1) displayed the message: <i>Student Centric processing not enabled</i> when the GTVSDAX rule <i>PROCESSSCP</i> (Use Student Centric Periods) had an external code value of <i>N</i> .
BWCKCRS1	#1-BBNF5L	The code was missing G\$_NLS.get for I18N in line 368: twbkfrmt.p_tabledata (twbkfrmt.f_PrintBold('Total Credits:'));
BWCKLIBS, BWCKLIB1, BWCKREG1	#1-C5J10D	Changes made for Banner Flexible Registration 8.4.1 release for dropping discounted courses.

Object	Number	Summary
BWCKREG1	#1-9TZ125	<p>When a student enrolled in a course with a single level, the student could register in Self-Service, regardless of whether or not the student's curriculum level matched the course level.</p> <p>However, when the course had multiple levels, the system tried to match to the student's primary level only and failed if the student's primary level was not on the course.</p>
BWCKREG1	#1-B68AR5	<p>Dropping a waitlisted course took over five minutes. If process was not allowed to complete and the browser was closed, the session remained active indefinitely and archive redo logs were generated which continuously filled up the file system. The session had to be killed.</p>
BWSKALO1	#1-BCRG81	<p>When a person logged into Self-Service to check the status of their Web application, the email link on the Application Menu may have created an email with a subject line that included a prior alternate ID or SSN, for example "998999999 - Susie Smith".</p>
BWSKALO1	#1-BWA9ZC	<p>The delivered baseline information text for <code>bwskalog.P_Failure_Page</code> contained a spelling error.</p> <p><i>An error occurred during the Credit Card Processing. Use Return to Menu link to go back and try again.</i></p> <p>The word "occured" contained a typographical error and needed to be corrected. The message in <code>bwskwtrr.P_Failure_Page</code> was correct.</p>

Object	Number	Summary
BWSKALO1, BWSKWTR1	#1-BWC8QN	<p>The credit card failure pages (bwska log.P_Failure_Page or bwskwtrr.P_Failure_Page) were hardcoded to display the message <i>An error occurred during the Credit Card Processing. Use Return to Menu link to go back and try again.</i></p> <p>This should be changed to infotext, which allows for the option to modify the text to include further information.</p>
BWSKAPM1	#1-B55VRT	Miscellaneous application of payment (TBRMISD) was tied to the incorrect PIDM. The receipt number was correct for SAAADMS and SARADAP. The TBBMISC record had the correct name, address, and receipt number. However, incorrect information was displayed on TFAMISC and TGIRCPT.
BWSKAPM1	#1-B7D0AC	TSAAREV displayed incorrect payment detail codes for Web application credit card payments. The credit card payment process used the first detail code from GOAMERC, regardless of the credit card used for the payment.
BWSKAPM1, BWSKWCC1	#1-B6242W	When the receipt number from a student credit card transaction was generated, a lock occurred on the SOBSEQN table. This resulted in a wait period, and the user could not proceed with another transaction which would generate a receipt.
BWCKSML1, BWCKSNCR, BWCKSNC1, BWCKCAPP, BWCKCTLG, BWCKCTL1, BWCKSMLT, BWCKSMDS	#1-B9N55D	<p>Oracle 11G certification - Web Procedures with OUT parameters</p> <p>BWCKCAPP, BWCKCTLG, BWCKSAMS, BWCKSMDS, BWCKSMLT, BWCKSNCR</p>

Object	Number	Summary
BWSCXCH1	#1-5DV6ZJ	When the Academic Profile channel was rendered, it displayed the advisor associated with the highest effective term of the general student record (SGBSTDN), rather than the advisor associated with the default term from SI_ACADEMIC_PROFILE.
BWSKFRE1	#1-BD1T81	CRNs selected on Look Up Classes were not passed to Add/Drop Classes page when the Register button or the Add to Worksheet button was selected.