

RADOW COLLEGE



D2L INTELLIGENT AGENTS RECIPE BOOK



**KENNESAW STATE
UNIVERSITY**

NORMAN J. RADOW COLLEGE OF
HUMANITIES AND SOCIAL SCIENCE
Office of Academic Innovation

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WHAT ARE INTELLIGENT AGENTS?

WHAT ARE INTELLIGENT AGENTS?

Intelligent agents are automated notifications within learning management systems that can be schedule to run automatically or manually to track activity.

Video Overview: Introduction to Intelligent Agents

You can use Intelligent Agents to easily engage with your students in

different ways, such as

- Making announcements
- Sharing resources
- Offering praise or encouragement
- Sending reminders

The recipes you'll find in this Intelligent Agent cookbook are **scripts** for acknowledging, encouraging, and reminding your students.

You can copy and customize the scripts for your own Intelligent Agent messages in D2L.

The cookbook also includes **how-to videos** and **instructions** for setting up Intelligent Agents and **additional resources**.



HOW-TO VIDEOS

HOW-TO VIDEOS

Intelligent Agents Part 1: **Setting up Your First Agent**

Intelligent Agents Part 2:
Scheduling and Setting Actions for Your Agent

Intelligent Agents Part 3:
Setting up Your Agents Message

Intelligent Agents Part 4: **Creating a Release Condition**



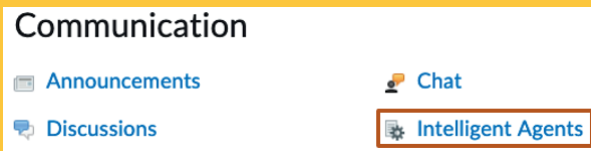
SETTING UP INTELLIGENT AGENTS IN D2L

The Intelligent Agents function in D2L allows you to set up pre-determined times and circumstances to send pre-written emails to your students. For example, you can send your students an email when they haven't logged in to the course for three days, when they receive an 80% or higher on the midterm, when they have received feedback on an essay, and more. They are an extremely useful function of D2L and are ideal for cutting back on faculty workload while still maintaining a high level of faculty-student contact in large classes.

1. To access the Intelligent Agent function, navigate to the course you want to use the function in. Then, click on the **Course Admin** tab.

Course Home Content Discussions Assignments Other ▾ Classlist Grades **Course Admin**

2. Next, scroll down until you see the "Communication" section and select **Intelligent Agents**.



3. Go to **Settings**. Then select "Set custom values for this course." Enter your NetID followed by @kennesaw.view.usg.edu in both fields. Click **Save** to return to the Agent List screen.

Intelligent Agents Settings

☐ Use the system defaults

Name that emails come from
donotreply@kennesaw.view.usg.edu

Reply-To address for responses
donotreply@donotreply.view.usg.edu

☒ Set custom values for this course

Name that emails come from
scrappy@kennesaw.view.usg.edu

Reply-To address for responses
scrappy@kennesaw.view.usg.edu

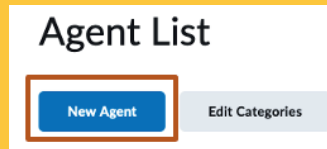
These settings will affect all future emails sent by an agent.

The email address that agent emails come from cannot be set to your personal address due to how spam filters operate, but you can add a personal touch by setting the Name for the address, and you can set the Reply-To address if you want to receive replies.

Save Cancel

SETTING UP INTELLIGENT AGENTS IN D2L

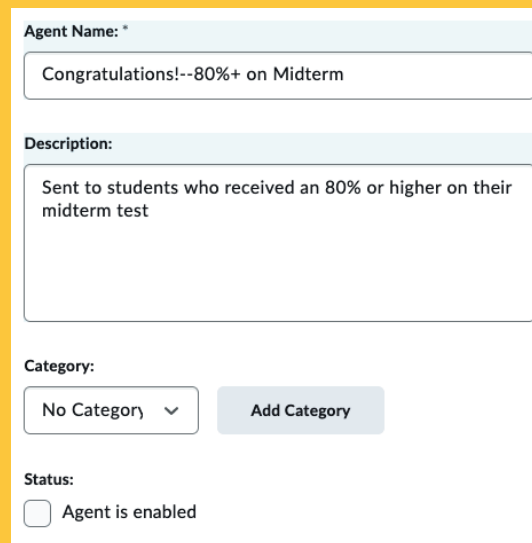
4. Select **New** to create a new Agent.



Agent List

New Agent Edit Categories

5. Next, give your agent a name and description. Leave the “**Agent is enabled**” box unchecked for now. You will change that once the agent is complete.



Agent Name: *

Congratulations!--80%+ on Midterm

Description:

Sent to students who received an 80% or higher on their midterm test

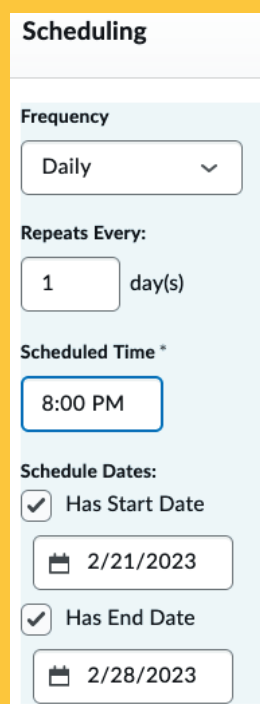
Category:

No Category Add Category

Status:

☐ Agent is enabled

6. Under **Scheduling**, select how frequently you want the Agent to run. For this example, we will use daily for as long as the quiz is open.



Scheduling

Frequency

Daily

Repeats Every:

1 day(s)

Scheduled Time *

8:00 PM

Schedule Dates:

☒ Has Start Date

2/21/2023

☒ Has End Date

2/28/2023

SETTING UP INTELLIGENT AGENTS IN D2L

7. Under **Criteria**, select the **Users with specific roles** setting and check the **Student** box to ensure the email is sent only to students.

Criteria

Role in Classlist *

☐ All users **visible** in the Classlist

☒ Users with specific roles:

- ☐ Instructor
- ☒ Student
- ☐ Student Auditor
- ☐ Non-Grade Instructor
- ☐ Visitor
- ☐ Non-Edit Instructor
- ☐ Special
- ☐ Instructor- Insights
- ☐ KSU Online Librarian

8. There are three different options for creating an Intelligent Agent.

a. The “Login Activity” feature allows you to send emails based on when users are or are not logging into D2L—this feature *is not* specific to your course but is related to general logins.

b. The “Course Activity” feature allows you to send emails based on when users are or are not logging into D2L—this feature *is* specific to your course.

c. For the purpose of this example, we will use the third option, “Release Conditions.”

Scroll down and click **Create** to use this function.

9. Click on the —**Select Condition Type**— drop-down box and scroll down to “Quizzes.” There, select **Score on a Quiz**.

Create a Release Condition

Release this item when the following condition is met:

Condition Type

- Completed content topic
- Not completed content topic
- Discussions
- Posts authored in topic
- Score on associated rubric
- No posts authored in topic
- Grades
- Grade value on a grade item
- Score on associated rubric
- No grade received
- Released final grade score
- Quizzes
- Score on a quiz**
- Completed quiz attempt

Take Action on Activity

☐ Login Activity

- ☒ User has not logged in during the last day(s)
- ☐ User has logged in during the last day(s)

☐ Course Activity

- ☒ User has not accessed the course in the last day(s)
- ☐ User has accessed the course during the last day(s)

Release Conditions

Create **Browse**

10. Use the “-- Select Quiz --” drop-down box to select the quiz you want to congratulate students on. After selecting your quiz, click the **Create** button.

SETTING UP INTELLIGENT AGENTS IN D2L

11. You should now see “Criteria” and “Grade” options. Select **Criteria** and find the “>=” option to signify the intelligent agent will congratulate students who receive greater than or equal to 80% on the quiz. Then, enter the grade in the “Grade” section. Finally, click the **Create** button.

Criteria:

<=

Grade

80 %

Create Cancel

12. Now, scroll down to “Actions.” You can change the repetition of when the email is sent. The second option is ideal for quizzes that have more than one attempt. Check the **Send an email when the criteria are satisfied** box.

Actions

Repetition

☐

Take action only the first time the agent's criteria are satisfied for a user

☒

Take action every time the agent is evaluated and the agent's criteria are satisfied for a user

What Action Repetition setting should I use?

Send an Email

☒

Send an email when the criteria are satisfied

13. Scroll down and add {InitiatingUser} to the “To:” line. This will send the email to the user that received the grade. Use the phrase {InitiatingUserFirstName} to address the user by their first name in the email. You can find other generated phrases by clicking the blue text, indicated below by the arrows.

To:

Cc:

Bcc:

Subject: *

Message:

Paragraph **B** *I* U

Lato (Recomm... 17.1px

Dear {InitiatingUserFirstName},

Congratulations on your recent midterm grade! Keep up the good work!

Professor X

14. You can now scroll back up and enable the Intelligent Agent. **Click “Save and Close”** at the bottom of the screen.

Status:

☒ Agent is enabled

RECIPES FOR ACKNOWLEDGMENT

RECIPE FOR SENDING PRAISE FOR READING THE SYLLABUS

Ingredients:

1. Agent Name: Syllabus Viewed
2. Agent Description: Great job on viewing the course syllabus
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "Daily"
5. Then set "Repeats" to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
8. Under "Release Conditions," choose "Create"
9. Then click "Select Condition Type"
10. Scroll down to "Content," then choose "Visited Content Topic," then select "Syllabus"
11. In the "Actions" tab, find "Repetition," and select "Take action only the first time the agent's criteria are satisfied for a user."
12. Then check "Send an Email"

Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "Keep up the good work, {InitiatingUserFirstName}" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},
Great job on downloading the syllabus! You should now have all the information you need to get started in this class. Please don't hesitate to reach out to me at (XXXXXX) if you have any questions about the information or resources in the syllabus. Looking forward to a great semester!

Sincerely,
Professor XXXXXXXXXX



RECIPES FOR ACKNOWLEDGMENT

RECIPE FOR ACKNOWLEDGING LOGIN ACTIVITY

Ingredients:

1. Agent Name: Regular Login Activity
2. Agent Description: Thank you for being active in the course
3. Select “Agent is Enabled”
4. Under Scheduling Frequency, select “Daily”
5. Then set “Repeats” to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under “Criteria” and “Role in the Classlist” select “Users with Specific Roles,” then click “Student”
8. Under “Take Action on Activity,” check “Course Activity”
9. Then click “User has accessed the course during the last__days.” A good number to put here would be 4 or 5.
10. In the “Actions” tab, find “Repetition,” and select “Take action every time the agent is evaluated and the agent’s criteria are satisfied for a user.”
11. Then check “Send an Email”

Directions:

1. Add {InitiatingUser} in the “TO: box”
2. Add “Thank you for being active in the course, {InitiatingUserFirstName}” in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},

I noticed that you have been active in the course this week! Thank you for making sure that you are working toward completing your course assignments. As always, do not hesitate to reach out if you have any questions or need clarification on your assignments.

Sincerely,
Professor XXXXXXXXX



RECIPES FOR ACKNOWLEDGMENT



RECIPE FOR ACKNOWLEDGING HIGH QUIZ SCORE

Ingredients:

1. Agent Name: Great Job on Your Recent Quiz
2. Agent Description: Acknowledging a student's high quiz score
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "Daily"
5. Then set "Repeats" to daily and Repeats Every 1 day
6. Set the start date as the first day of the quiz window, and the end date as the last day of the quiz window
7. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
8. Under "Release Conditions," choose "Create"
9. Then click "Select Condition Type"
10. Scroll down to the "Quizzes" section and click "Score on a Quiz"
11. Then choose the ">=" option. Next, type in the grade that you want the agent to send out emails for. For example, if you want the agent to be sent for students who score an 85% or higher, type "85" in the grade percentage box.
12. Then click "Create."
13. In the "Actions" tab, find "Repetition," and select "Take action every time the agent is evaluated, and the agent's criteria are satisfied for a user."
14. Then check "Send an Email"

Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "Great job on your (Insert Quiz Name Here), {InitiatingUserFirstName}" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},
I wanted to reach out to congratulate you on your performance on the recent quiz! It is clear that you are understanding the course material and making sure that you are engaging in the class. Your efforts do not go unnoticed. As we move forward in the course, please do not hesitate to reach out if you have any questions or need clarification on your assignments.

Sincerely,
Professor XXXXXXXXX

RECIPES FOR ACKNOWLEDGMENT

RECIPE FOR SCORING ABOVE A PERCENTAGE ON A SERIES OF SPECIFIC QUIZZES

Ingredients:

1. Agent Name: Great Job on Your Last Three Quizzes
2. Agent Description: Acknowledging a student's high quiz score on specific quizzes
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "Daily"
5. Then set "Repeats" to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
8. Under "Release Conditions," choose "Create"
9. Then click "Select Condition Type"
10. Scroll down to the "Quizzes" section and click "Score on a Quiz"
11. Then choose the ">=" option. Next, type in the grade that you want the agent to send out emails for. For example, if you want the agent to be sent for students who score an 85% or higher, type "85" in the grade percentage box.
12. Then click "Create."
13. Next, to add another quiz for the agent to evaluate, select the "Create" button again, and add another quiz to be evaluated. Do this until the three quizzes that you want tied to this agent are listed.
14. In the "Actions" tab, find "Repetition," and select "Take action only the first time the agent's criteria are satisfied for a user."
15. Then check "Send an Email"

Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "Great job on your (Insert Quiz Names Here), {InitiatingUserFirstName}" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},
Congratulations! You have scored an 85% or higher on your (insert quiz names here). Based on your consistent performance, it is clear that you are understanding the course material and regularly engaging with the class. As always, if you have any questions related to your assignments or course work do not hesitate to reach out.

Sincerely,

Professor XXXXXXXXXX



RECIPES FOR ENCOURAGEMENT

RECIPE FOR REMINDING TO REVIEW A DOCUMENT

Ingredients:

1. Agent Name: Don't Forget to View the Syllabus
2. Agent Description: Reminder to View the Syllabus
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "Daily"
5. Then set "Repeats" to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
8. Under "Release Conditions," choose "Create"
9. Then click "Select Condition Type"
10. Scroll down to "Content," then choose "Not Completed Content Topic," then select "Syllabus"
11. In the "Actions" tab, find "Repetition," and select "Take action only the first time the agent's criteria are satisfied for a user."
12. Then check "Send an Email"



Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "Don't forget to read the syllabus, {InitiatingUserFirstName}" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},
I wanted to reach out because I noticed that you have not viewed the course syllabus. It is very important that you read through the syllabus and the course schedule and make note of important dates, required course materials, etc. As you navigate through the documents, please feel free to reach out if you have any questions. I am here to support you!

Sincerely,
Professor XXXXXXXXXX



RECIPES FOR ENCOURAGEMENT



RECIPE FOR CHECKING IN REGARDING A MISSED ASSIGNMENT

Ingredients:

1. Agent Name: Missed Assignment
2. Agent Description: Informing student that they have a missed assignment
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "Daily"
5. Then set "Repeats" to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
8. Under "Release Conditions," choose "Create"
9. Then click "Select Condition Type"
10. Scroll down to "Assignments," then choose "No submission to folder," then select the name of the specific assignment under "Condition Details" then "Assignment Submission Folder"
11. In the "Actions" tab, find "Repetition," and select "Take action only the first time the agent's criteria are satisfied for a user."
12. Then check "Send an Email"

Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "You missed an assignment, {InitiatingUserFirstName}" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},

I noticed that you have not submitted your XXXXX assignment. Turning in assignments on time is a critical factor of your success in this class. Please submit XXXXXX assignment as soon as possible. If you have extenuating circumstances, please contact me. I am happy to meet with you during my office hours or on a Teams call.

Sincerely,
Professor XXXXXX

RECIPES FOR ENCOURAGEMENT

RECIPE FOR CHECKING IN WHEN INACTIVE IN COURSE

Ingredients:

1. Agent Name: No Login Activity in Recent Days
2. Agent Description: Don't Forget to Check in to the Course
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "Daily"
5. Then set "Repeats" to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
8. Under "Take Action on Activity," check "Course Activity"
9. Then click "User has accessed not accessed the course during the last__days." A good number to put here would be 4 or 5.
10. Then check "Send an Email"



Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "Don't forget to check in to the course, {InitiatingUserFirstName}" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},

I noticed that you haven't been active in the course recently. It's important to log in regularly to check for updates and to stay on top of our readings and course assignments. As always, do not hesitate to reach out if you have any questions or need clarification on your assignments.

Sincerely,
Professor XXXXXXXXXX



RECIPES FOR ENCOURAGEMENT



RECIPE FOR REACHING OUT REGARDING A LOW SCORE ON AN ASSIGNMENT

Ingredients:

1. Agent Name: Low Score on Assignment
2. Agent Description: Checking in after student scores low on an assignment
3. Select “Agent is Enabled”
4. Under Scheduling Frequency, select “Daily”
5. Then set “Repeats” to daily and Repeats Every 1 day
6. Set the start date as the first day of the semester, and the end date as the last day of the semester
7. Under “Criteria” and “Role in the Classlist” select “Users with Specific Roles,” then click “Student”
8. Under “Release Conditions,” choose “Create”
9. Then click “Select Condition Type”
10. Scroll down to “Assignments,” then choose “No submission to folder,” then select the name of the specific assignment under “Condition Details” then “Assignment Submission Folder”
11. In the “Actions” tab, find “Repetition,” and select “Take action only the first time the agent’s criteria are satisfied for a user.”
12. Then check “Send an Email”

Directions:

1. Add {InitiatingUser} in the “TO: box”
2. Add “Here are some resources, {InitiatingUserFirstName}” in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},

I noticed that you received a low score on your recent assignment. I understand that some of the content is challenging, so I wanted to send you resources to help you review the recently assessed material. As you go through the resources, please do not hesitate to reach out should you have any questions. In addition, don’t forget that my office hours are XXXX-XXXX. I am happy to meet with you during those times to help you on future assignments.

Sincerely,
Professor XXXXXX

RECIPES FOR REMINDERS

RECIPE FOR REMINDING ABOUT OFFICE HOURS AND CONTACT INFORMATION



Ingredients:

1. Agent Name: Office Hours and Contact Information Reminder
2. Agent Description: Reminding students about office hour times and contact information
3. Select “Agent is Enabled”
4. Under Scheduling Frequency, select “Monthly” (You can choose another frequency option as well).
5. Then set “Repeats” to daily and Repeats Every 1 month
6. Under “Repeats On,” you can choose the specific day each month you want to send the email.
7. Set the start date as the first day of the semester, and the end date as the last day of the semester
8. Under “Criteria” and “Role in the Classlist” select “Users with Specific Roles,” then click “Student”
9. Under “Release Conditions,” choose “Create”
10. Then click “Select Condition Type”
11. Scroll down to “Classlist,” then choose “Role in current org unit,” then select “Enrolled as” under “Condition Details/Criteria,” then under “Role,” choose “Student.”
12. In the “Actions” tab, find “Repetition,” and select “Take action every time the agent is evaluated, and the agent’s criteria are satisfied for a user.”
13. Then check “Send an Email”

Directions:

1. Add {InitiatingUser} in the “TO: box”
2. Add “Office Hours and Contact Information” in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},
I hope your semester is going well. I just wanted to send a reminder that I am available for office hours on XXXX at XXXXX if you need to arrange an appointment. The best way to reach me is XXXXXXXXX. Please feel free to reach out if you have any questions or concerns. Have a great day!

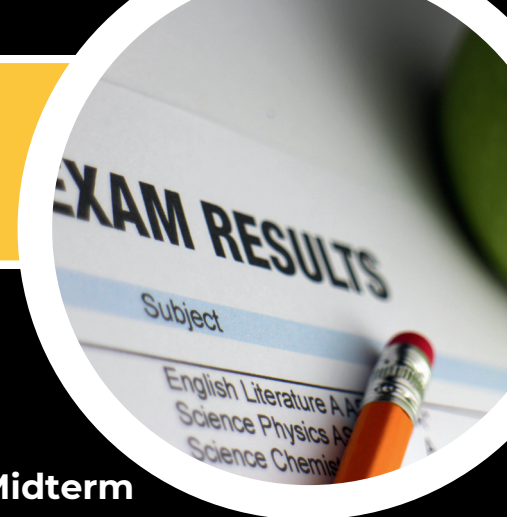
Sincerely,
Professor XXXXXXX

RECIPES FOR REMINDERS

RECIPE FOR REMINDING TO CHECK MIDTERM GRADE

Ingredients:

1. Agent Name: Reminding Students to Check Their Midterm Grade in D2L
2. Agent Description: Sending students a reminder in D2L to check their midterm and also letting them know the last day to withdraw from the class without academic penalty
3. Select "Agent is Enabled"
4. Under Scheduling Frequency, select "One-Time Run"
5. Then select the date and time that you want the agent to run
6. Under "Criteria" and "Role in the Classlist" select "Users with Specific Roles," then click "Student"
7. Under "Release Conditions," choose "Create"
8. Then click "Select Condition Type"
9. Scroll down to "Classlist," then choose "Role in current org unit," then under "Condition Details," click the "Role" dropdown menu and choose "Student"
10. Then check "Send an Email"



Directions:

1. Add {InitiatingUser} in the "TO: box"
2. Add "Check Your Midterm Grade" in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},

I wanted to remind you to check your midterm grade in the D2L gradebook. Don't forget that the last day to withdraw from the course without academic penalty is (Insert withdraw date). As always, please feel free to reach out if you have any questions regarding your grade or your course work.

Sincerely,
Professor XXXXX



RECIPES FOR REMINDERS

RECIPE FOR PROVIDING PERFORMANCE-BASED RESOURCES



Ingredients:

1. Agent Name: Providing Supplementary Materials for Students Exceeding Grade Expectations
2. Agent Description: Sending optional supplementary resources for students performing well on course materials
3. Select “Agent is Enabled”
4. Under Scheduling Frequency, select “Daily”
5. Then set “Repeats” to daily and Repeats Every 1 day
6. Under “Repeats On,” you can choose the specific day each month you want to send the email.
7. Set the start date as the first day of the semester, and the end date as the last day of the semester
8. Under “Criteria” and “Role in the Classlist” select “Users with Specific Roles,” then click “Student”
9. Under “Release Conditions,” choose “Create”
10. Then click “Select Condition Type”
11. Scroll down to “Quizzes,” then choose “Score on a quiz,” then select the specific quiz name under “Condition Details/Quiz”
12. In the “Actions” tab, find “Repetition,” and select “Take action every time the agent is evaluated and the agent’s criteria are satisfied for a user.”
13. Then check “Send an Email”

Directions:

1. Add {InitiatingUser} in the “TO: box”
2. Add “Keep up the good work, {InitiatingUserFirstName}” in the subject line
3. Add the message:

Dear {InitiatingUserFirstName},
Great job on the last assignment! It is clear that you have been keeping up with the materials and are grasping the content well. In fact, I have included some extra (optional) resources below if you are interested in taking a deeper dive into XXXXXXXX. Keep up the great work!
Sincerely,
Professor XXXXX

ADDITIONAL RESOURCES



- Article on “How Can I Use Intelligent Agents to Increase Interaction in my Online Class”
- Overview of Brightspace Intelligent Agents
- This guide from Brightspace provides detailed steps on how to set up and manage Intelligent Agents in your course
- Article explaining how to set up agents
- The University of Arizona provides an overview of how Intelligent Agents can enhance learner engagement and instructor presence

