

SER 321 B Session

SI Session

Thursday, March 20th 2025

7:00 pm - 8:00 pm MST

Agenda



What is SI?

About Me

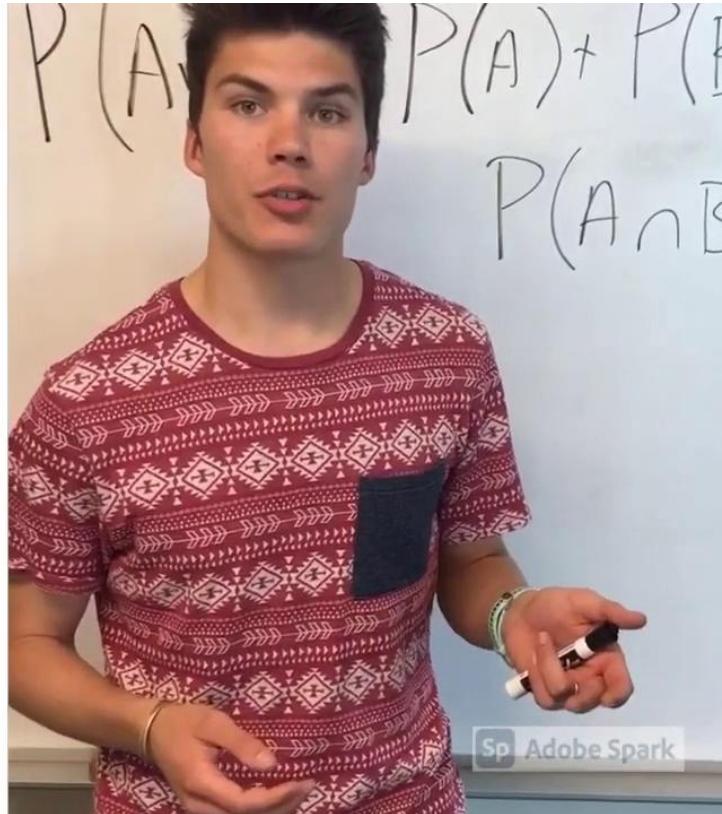
Session Times & Expectations

Course Tips!

What is SI?

Informational Video

What is SI?



About Me

Katie

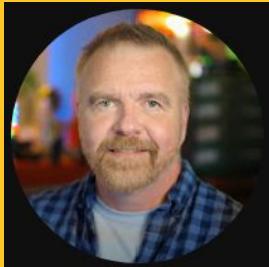
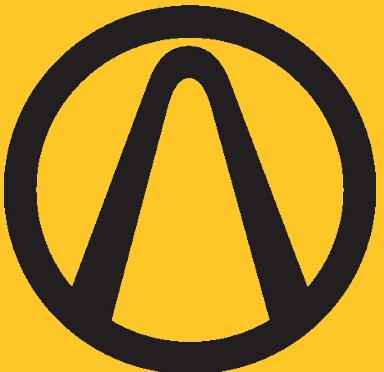
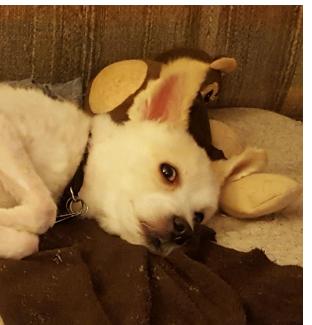
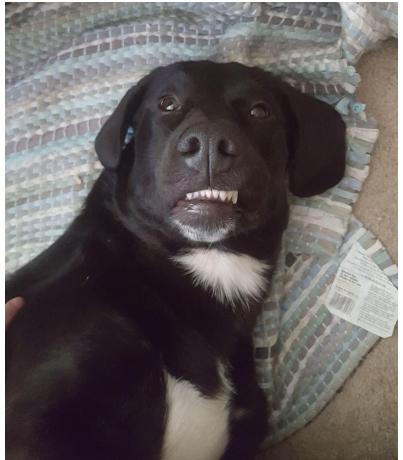
- Born and raised near Chicago, Illinois
 - Moved around within the Northern Suburbs
 - Currently in Grayslake
- Work at a local Italian restaurant
- Received AS from my local Community College
- Transferred to ASU for Software Engineering
- Runs in the family
 - Father is a Software Architect
 - Mother is a Quality Assurance Analyst
- Graduating this May! 



About Me

Katie

- Hobbies
 - Gaming
 - Football (Go Bears!)
 - Reading
 - Learning
 - Doggos! 😊



SI Session Expectations

Thanks for coming to the **SER 321** SI session. We have a packed agenda and we are going to try to get through as many of our planned example problems as possible. This session will be recorded and shared with others.

- If after this you want to see additional examples, please visit the drop-in tutoring center.
- We will post the link in the chat now and at the end of the session.
- Please keep in mind we are recording this session and it will be made available for you to review 24-48 hours after this session concludes.
- Finally, please be respectful to each other during the session.

Interact with us:

Zoom Features



Zoom Chat

- Use the chat feature to interact with the presenter and respond to presenter's questions.
- Annotations are encouraged.

SER 321

Session Schedule

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

10:00 - 11:00 AM MST

7:00 - 8:00 PM MST

7:00 - 8:00 PM MST

SER 321

Slack Overview

The screenshot shows a messaging application interface. On the left is a sidebar with various navigation options: Home, DMs, Activity, Later, Templates, Automata..., and More. The 'More' section is expanded, showing channels like # assignment6, # assignment5, etc., and direct messages. A '+' button is at the bottom of this sidebar.

The main area shows a channel named '# si-channel'. At the top of this channel view are tabs: Messages, Resources, Bookmarks (which is highlighted with a yellow box), and a '+' icon. Below the tabs, a message from Katie Grinnell at 11:32 AM reads: "Hi Everyone! 🎉".

The message content continues: "My name is Katie and I am excited to announce that I will be your SI Leader for this semester for SER 321! SI stands for Supplemental Instruction and I will be holding three, one-hour SI sessions weekly. During these sessions we will review content, do practice problems, learn study skills, and so much more! I will be here to help you all along your studying journey for SER 321. I can't wait to get to know you and study together!"

Below this message is a bulleted list of session details:

- Our sessions will be held starting **Thursday, March 20th** (unless otherwise told):
 - Tuesdays, 10:00-11:00 am MST, ONLINE
 - Thursdays, 7:00-8:00 pm MST, ONLINE
 - Sundays, 7:00-8:00 pm MST, ONLINE
- Zoom Link for all sessions (unless otherwise told):
 - <https://asu.zoom.us/j/89993693944>
 - You can also use the Join Session! button in the bookmarks bar above
- Google Sheet for all Session Recordings:
 - [Spreadsheet](#)
 - You can also use the Recordings button in the bookmarks bar above
 - To access this link, you will need to be signed into your [ASU Gmail Account](#)

At the bottom of the channel view, there's a message input field with a toolbar above it containing icons for bold, italic, and other text formats. The message input field contains the text: "Message #si-channel".

SER 321

Slack Overview

The screenshot shows a dual-monitor setup. The top monitor displays the Slack interface for the '# si-channel' channel. The bottom monitor displays a GitHub repository page for 'amehlhase316 / ser321examples'.

Slack Interface:

- Header:** Search bar: "Search Arizona State University".
- Left Sidebar:** Arizona State University logo, Home, DMs, Activity, Later, and a list of Starred channels including "# si-channel".
- Channel Header:** "# si-channel" with 2x 2025SpringB-X-SER321-15 messages.
- Tab Bar:** Messages, Resources, Bookmarks (highlighted with a yellow box), and Add Bookmark.
- Bookmarks List:** Session Slides (asu.instructure.com), Recording Spreadsheet (docs.google.com), and Course Repo (github.com). Each item has a yellow double-headed arrow pointing to its corresponding link in the GitHub interface below.

GitHub Repository Page:

- Header:** amehlhase316 / ser321examples
- Nav Bar:** Code (highlighted with a yellow box), Issues (1), Pull requests (2), Actions, Projects, and a shield icon for Recording Link.
- Repository Summary:** ser321examples (Public)
- Branches:** master (selected), 1 Branch, 0 Tags.

SER 321

Slack Overview

The screenshot shows the Slack application interface. At the top, there's a search bar with the placeholder "Search Arizona State University". On the right side of the header, there are icons for help, refresh, and exit, along with a user profile icon showing "102" notifications.

The main area shows a channel named "# si-channel". Below the channel name, there are tabs for "Messages", "Resources" (which is currently selected), "Bookmarks", and a "+" button. The "Resources" tab displays a list of links under the heading "Resources".

The sidebar on the left contains a navigation menu with the following sections and items:

- Home**
- DMs**
- Activity**
 - External Connections
 - Starred
 - # si-channel
- Later**
- Templates**
 - Channels
 - # assignment6
 - # assignment5
 - # assignment4
 - # assignment3
 - # assignment2
 - # assignment1
 - # announcements
 - # general
 - # random
 - # studentemployment_w...
 - ugta-team
 - Add channels
 - Direct messages
- Autom...**
- ...**
- More**

SER 321

Making a Request

☰ DEV-2025Spring-SER321-03-SI > Discussions

1. Post in the Canvas Discussion Board
2. Post in the #si_channel
3. Send me a DM on Slack

2025 DEV

Home

Announcements

Modules

Discussions

Syllabus

Files

All

▼

Search by title or author...

+ Add Discussion

Settings

▼ Pinned Discussions

Make a Request!



▼ Discussions

Ordered by Recent Activity

B I S | ⌂ | ⌂ ⌂ | ⌂ | ⌂/ ⌂

Message #si_channel

I cannot cover assignments directly,
but I **can** cover related concepts.

Katie Grinnell

● Active

🕒 1:10 PM local time

Message

Huddle

⋮

SER 321

Tips for Success!

If a PDF is required,
COMPLETE IT AS YOU MAKE PROGRESS!

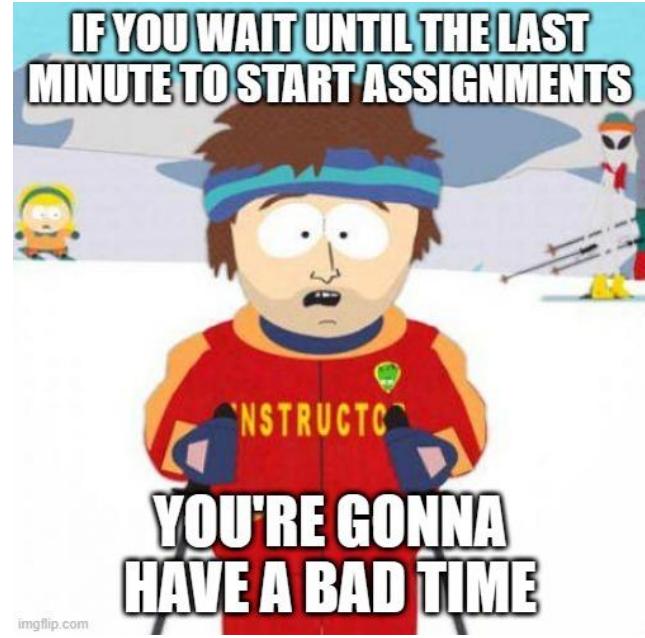
- Start assignments ASAP
 - Read the entire document first!
 - Be sure to checkout the Assignment Helper Docs!
 - Try to group related requirements into sections
- Commit **a lot**
- Use the [Course Repo](#) - it's there for a reason!
- Monitor the slack channels!
- Ask questions!



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Tips for Success!

**START
ASSIGNMENTS
ASAP**



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Tips for Success!

Troubleshooting Skills are **HUGE**

Looking to find the *balance*



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Tips for Success!

2025 Spring B

Home

Announcements

Syllabus

Modules

Grades

Accessibility

ASU Course Policies

Time in AZ

Slack

Honorlock ASUO

After Hours Tutoring

ASU Tutoring

Assignments

Be sure to watch the [Distributed Systems Intro Videos](#)

Collapse All

▶ Welcome

Complete All Items

▼ Intro and Review

📄 [Distributed Systems Intro and expectations](#)

📄 [Review: Gradle, Command line](#)

📄 [Review: Git/GitHub](#)

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Tips for Success!

Watch the [Gradle Canvas Videos](#)!

Videos cover:

- Build Structure
- Plugins
- Tasks
- Commands (build, clean, run, and test)
- Arguments

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Setup

You will need **two** systems

Your MAIN device

Secondary Device

AWS EC2 Instance

Linux VM



SER 321

Setup

Both systems ***need...***

Java 22

Gradle 8.10.2

User Guide

GIT

SSH Guide

SER 321

Gradle Examination

```
8 ▷ ◘ task SocketServer(type: JavaExec) {
9     group 'TCP Server/Client'
10    description 'Creates Server socket waits for up to 3 messages'
11
12    classpath = sourceSets.main.runtimeClasspath
13
14    main = 'SockServer'
15 }
```

SER 321

Gradle Examination

[Sockets/JavaSimpleSock2](#)

Tasks runnable from root project

Build tasks

assemble - Assembles the outputs (

build - Assembles and tests this |

buildDependents - Assembles and te

buildNeeded - Assembles and tests

classes - Assembles main classes.

clean - Deletes the build directo

jar - Assembles a jar archive con

testClasses - Assembles test clas

Documentation tasks

javadoc - Generates Javadoc API documentation for the 'main' feature.

Help tasks

buildEnvironment - Displays all buildscript dependencies declared in root project 'JavaSimpleSock2'.

dependencies - Displays all dependencies declared in root project 'JavaSimpleSock2'.

dependencyInsight - Displays the insight into a specific dependency in root project 'JavaSimpleSock2'.

help - Displays a help message.

javaToolchains - Displays the detected java toolchains.

outgoingVariants - Displays the outgoing variants of root project 'JavaSimpleSock2'.

projects - Displays the sub-projects of root project 'JavaSimpleSock2'.

properties - Displays the properties of root project 'JavaSimpleSock2'.

resolvableConfigurations - Displays the configurations that can be resolved in root project 'JavaSimpleSock2'.

tasks - Displays the tasks runnable from root project 'JavaSimpleSock2'.

TCP Server/Client tasks

SocketClient - Creates client socket sends a message and number to server

SocketServer - Creates Server socket waits for up to 3 messages

Verification tasks

check - Runs all checks.

test - Runs the test suite.

Build Setup tasks

init - Initializes a new Gradle bi

Rules

updateDaemonJvm - Generates or up

dates

wrapper - Generates Gradle wrapper

Pattern: clean<TaskName>: Cleans the output files of a task.

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Gradle Examination

```
8 > < task SocketServer(type: JavaExec) {  
9     group 'TCP Server/Client'  
10    description 'Creates Server socket waits for up to 3 messages'  
11  
12    classpath = sourceSets.main.runtimeClasspath  
13  
14    main = 'SockServer'  
15 }
```

TCP Server/Client tasks

SocketClient - Creates client socket sends a message and number to server
SocketServer - Creates Server socket waits for up to 3 messages

SER 321**Gradle**

Which if statement will execute with

`gradle SocketClient -Phost=localhost -Pnumber=5 ?`

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          project.getProperty('message'),  
          project.getProperty('number'));  
}  
else if (project.hasProperty("host") && project.hasProperty("message")) {  
    args(project.getProperty('host'),  
          project.getProperty('message'));  
}  
else if (project.hasProperty("host") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          "Set by Gradle, since nothing provided: https://gph.is/2y76sj4",  
          project.getProperty('number'));  
}  
else if (project.hasProperty("host")) {  
    args(project.getProperty('host'));  
}
```

SER 321**Gradle**

Which if statement will execute with

`gradle SocketClient -Phost=localhost -Pnumber=5 ?`

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          project.getProperty('message'),  
          project.getProperty('number'));  
}  
else if (project.hasProperty("host") && project.hasProperty("message")) {  
    args(project.getProperty('host'),  
          project.getProperty('message'));  
}  
else if (project.hasProperty("host") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          "Set by Gradle, since nothing provided: https://gph.is/2y76sj4",  
          project.getProperty('number'));  
}  
else if (project.hasProperty("host")) {  
    args(project.getProperty('host'));  
}
```

C.

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Gradle

Which if statement will execute with
gradle SocketClient ?

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          project.getProperty('message'),  
          A.      project.getProperty('number'));  
}  
} else if (project.hasProperty("host") && project.hasProperty("message")) {  
    args(project.getProperty('host'),  
          B.      project.getProperty('message'));  
}  
} else if (project.hasProperty("host") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          C.      "Set by Gradle, since nothing provided: https://gph.is/2y76sj4",  
          project.getProperty('number'));  
}  
} else if (project.hasProperty("host")) {  
    D. args(project.getProperty('host'));  
}
```

SER 321**Gradle**

Which if statement will execute with
gradle SocketClient ?

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          project.getProperty('message'),  
          A.      project.getProperty('number'));  
} else if (project.hasProperty("host") && project.hasProperty("message")) {  
    args(project.getProperty('host'),  
          B.      project.getProperty('message'));  
} else if (project.hasProperty("host") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
          C.      "Set by Gradle, since nothing provided: https://gph.is/2y76sj4",  
          project.getProperty('number'));  
} else if (project.hasProperty("host")) {  
    D. args(project.getProperty('host'));  
}
```

NONE!

How could we change that?

SER 321**OSI Model****Unit****Layer****What we are *really* talking about**

Data	Application	
Data	Presentation	
Data	Session	
Segment	Transport	
Packet	Network	
Frame	Data Link	
Bits	Physical	

SER 321

Network Layer - IP

Given the following IP address, identify the...

Port

128.148.32.110 **8080**

SER 321

Network Layer - IP

Given the following IP address, identify the...

Subnet

128.148.32.110:8080

SER 321

Network Layer - IP

Given the following IP address, identify the...

Network

128.148.32.110:8080

SER 321

Network Layer - IP

Given the following IP address, identify the...

Host

128.148.32.110:8080

SER 321

TCP/UDP

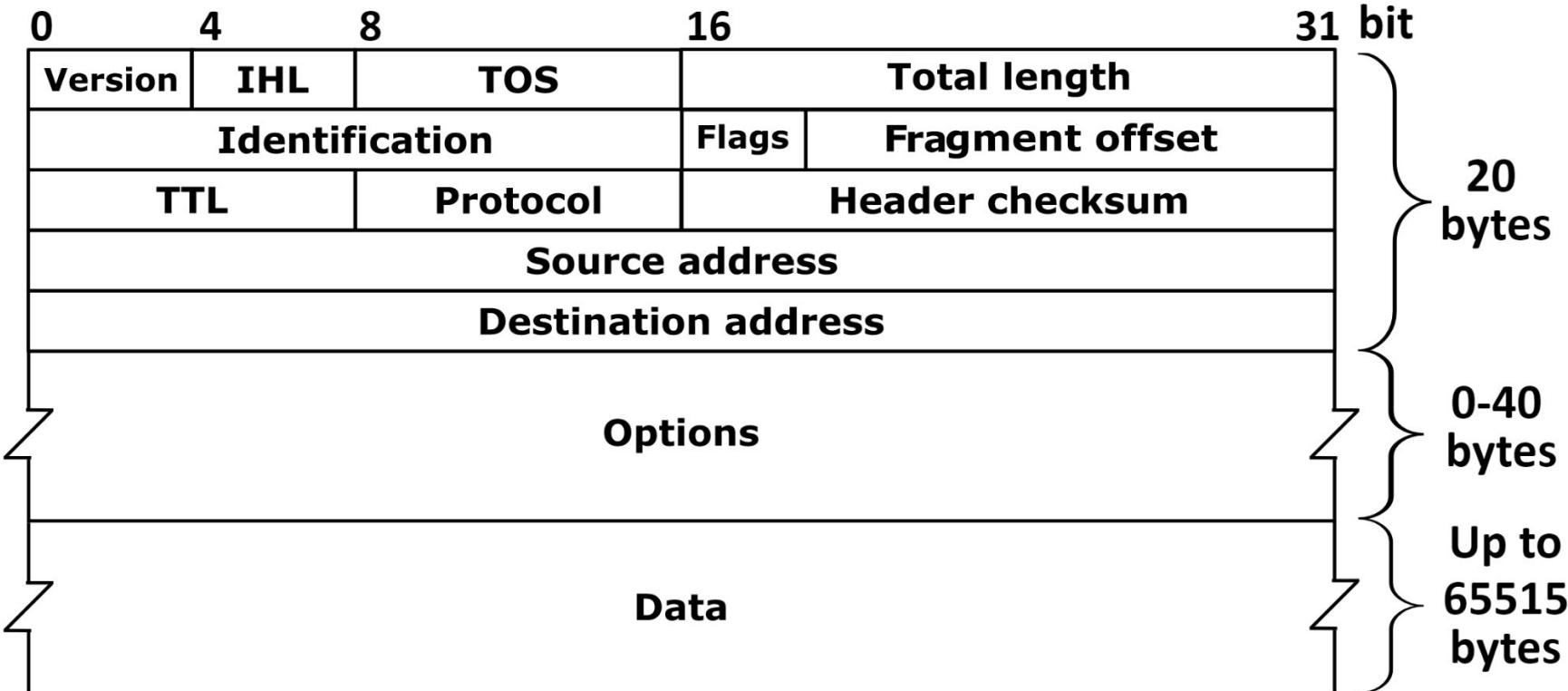
TCP	UDP

SER 321

Headers

What type of header is this?

IP Header

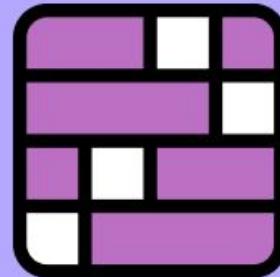


TCP or UDP Header?

SER 321
Connections

Connections!

The New York Times **Games**



Connections

SER 321

Scratch Space

Upcoming Events

SI Sessions:

- Sunday, March 23rd at 7:00 pm MST
- Tuesday, March 25th at 10:00 am MST
- Thursday, March 27th at 7:00 pm MST

Review Sessions:

- TBD

Questions?

Survey:

<https://asuasn.info/ASNSurvey>



More Questions?

Check out our other resources!

tutoring.asu.edu

The screenshot shows the ASU Academic Support Network homepage. At the top, there's a yellow header with the ASU logo and the text "Academic Support Network". Below the header, there's a navigation bar with links for "Services", "Faculty and Staff Resources", and "About Us". A red button labeled "University College" is visible. The main section features a large yellow banner with the text "Academic Support". Below the banner, there's a brief description of the service: "Academic Support Network (ASN) provides a variety of free services in-person and online to help currently enrolled ASU students succeed academically." There are also sections for "Services" and "Online Study Hub" with images and descriptions.

Academic Support Network (ASN) provides a variety of free services in-person and online to help currently enrolled ASU students succeed academically.

Services



Subject Area Tutoring

Need in-person or online help with math, science, business, or engineering courses? Just hop into our Zoom room or drop into a center for small group tutoring. We'll take it from there.

[Need help using Zoom?](#)

[View the tutoring schedule](#)

[View digital resources](#)

[Go to Zoom](#)



Writing Tutoring

Need help with undergraduate or graduate writing assignments? Schedule an in-person or online appointment, access your appointment link, or wait in our drop-in queue.

[Access your appointment link](#)

[Access the drop-in queue](#)

[Schedule Appointment](#)



Online Study Hub

Join our online peer communities to connect with your fellow Sun Devils. Engage with our tools to search our bank of resources, videos, and previously asked questions. Or, ask our Tutorbot questions.

Now supporting courses in Math, Science, Business, Engineering, and Writing.

[Online Study Hub](#)

1 -

[Go to Zoom](#)

[Need help using Zoom?](#)

[View the tutoring schedule](#)

[View digital resources](#)

1. Click on 'Go to Zoom' to log onto our Online Tutoring Center.
2. Click on 'View the tutoring schedule' to see when tutors are available for specific courses.



More Questions? Check out our other resources!

tutoring.asu.edu/online-study-hub

Online Study Hub

Online peer communities for students and tutors, YouTube channels, and Tutorbots.



What are online peer communities?

Individual courses have an online peer community that allows you to connect with your peers to post and answer questions and to develop study groups.



How can tutoring center videos help?

Videos can help supplement the learning you're doing in and outside of class and include step-by-step methods for how to understand concepts.



How does the Tutorbot work?

You can ask the Tutorbot questions about course concepts and the Tutorbot will recommend additional resources and examples to help address your questions.

ASU Academic Support Network

Arizona State University Services Faculty and Staff Resources About Us

University College

Select a subject

- Any -

Apply

Business

ACC 231

Uses of Accounting Info I

Peer Community

ACC 241

Uses of Accounting Info II

Peer Community

CIS 105

Computer Applications and Information Technology

Peer Community

Don't forget to check out
the Online Study Hub
for additional resources!

Select a subject

- Any -

Apply

Expanded Writing Support Available

Including Grammarly for Education, at no cost!



 Activate your Grammarly for Education account now!

Use the button below and we'll use your ASU login to create a Grammarly for Education premium account. See ya on the AI side!

[Sign up](#)

*Available slots for this pilot are limited



tutoring.asu.edu/expanded-writing-support

Additional Resources

- [Course Repo](#)
- [Gradle Documentation](#)
- [GitHub SSH Help](#)
- [Linux Man Pages](#)
- [OSI Interactive](#)