here we are in the Columbus module you can see it's also spacious it's also cluttered because it's a great place to store things or temporarily stow them it's not going to be this way forever we're gonna have it nice and clean pretty soon and these big bags right here are food containers we have a lot of food on board not all of it's for our crew it's for future cruise and also there's still some food left from past cruise so we have to make sort it and make sure we don't waste anything if we can help it
this is the Columbus module it's again

the pride of the European Space Agency

there's quite a few experimental racks

in here this is the microgravity science

glovebox that's one of my favorites I've

been working on the sheer experiment

from MIT and a few other places we have

the European drawer rack right over here

this is the FSL fluid science laboratory

on the ceiling and we have to be careful

not to bump into it because it has some

really neat experiments going on right

now is a geo flow we also have a few

American racks in here like the Express
three rack right here but at the bottom

of the Express rack we have the European modular cultivation system so we have a really neat system here where everybody's sharing and working together
	his is bio lab where we're going to start growing some plants in the next couple weeks

the European physiology modules facility

we haven't had a chance to use that on this mission yet

and then the HRF they human research facility rack number two and that has an ultrasound and a few other things that
we used so we use the refrigerated

44 00:01:56,390 --> 00:02:02,629
centrifuge also actually the HR f2

45 00:02:00,980 --> 00:02:06,680
doesn't have the ultrasound it's this

46 00:02:02,629 --> 00:02:08,179
one HR f1 rack itself true sound on it

47 00:02:06,680 --> 00:02:17,030
we're gonna use that for the bracelet

48 00:02:08,179 --> 00:02:19,159
experiments coming up Columbus okay we

49 00:02:17,030 --> 00:02:23,120
started in no - we're flying back to

50 00:02:19,159 --> 00:02:26,120
node 2 we'll take a quick look what else

51 00:02:23,120 --> 00:02:30,300
we have here we have my work area it's a

52 00:02:26,120 --> 00:02:32,550
little bit cluttered right now

53 00:02:30,300 --> 00:02:35,760
but this is kind of my desk it doesn't

54 00:02:32,550 --> 00:02:38,880
sit out horizontally but it sits but it

55 00:02:35,759 --> 00:02:40,769
has everything I need on it this is my

56 00:02:38,879 --> 00:02:44,099
crew quarters right here you can tell

57 00:02:40,770 --> 00:02:46,230
has my name on it and on top of it as a
radiation monitor these are new crew quarters in fact I can give you a tour real quick of group quarters sandy put these crew quarters together this is what it looks like inside there's a fair amount of room we'll get the has a standard space station light on it GLA and I'll see if I can you have sockets and outlets for laptop if you needed and so in my my crew quarters I have a bracket on here and a laptop computer and it's very can it's very convenient and I can read my books
at night and it's great so that's the crew quarters it's not very noisy inside has a nice fan it's pretty comfortable I get very good sleep there so now we're going into the Destiny laboratory and it aft on the space station and there's my crew mate sandy Magnus she's getting to exercise in for today and I'd like to show you a little bit of our equipment here this Rack is the oxygen generation system and we have a few too many things on this rack and we're in the middle of cleaning it off not not to interfere but you can see oxygen we're making oxygen
and when we make oxygen we're breaking down water and into hydrogen and oxygen and the oxygen comes right out here the water we're making either comes from the condensate from the air conditioning system you know the water that's in the air or urine so this is a really neat by a regenerative life support system this is our toilet number two we haven't quite gone there yet so to speak but it's all set up and it is ready to go there's where you can do number two and don't worry I won't show you anything you're not supposed to see
and there's place for number 2 and

101 00:05:18,680 --> 00:05:24,290
number 1 goes into big funnel raters now

102 00:05:21,949 --> 00:05:25,850
we're saying oh there's no privacy here

103 00:05:24,290 --> 00:05:27,710
and there isn't because we haven't put

104 00:05:25,850 --> 00:05:29,840
output at the cabin the cabins gonna

105 00:05:27,709 --> 00:05:31,638
stick out really far speaking out

106 00:05:29,839 --> 00:05:33,439
sticking out far because the cabins

107 00:05:31,639 --> 00:05:35,900
gonna stick out far we've actually moved

108 00:05:33,439 --> 00:05:38,060
the seevis over with the brackets about

109 00:05:35,899 --> 00:05:44,209
crab brackets because it actually moved

110 00:05:38,060 --> 00:05:51,110
the crabs crabs it off to the side this

111 00:05:44,209 --> 00:05:54,288
is the wrs rack number one and it works

112 00:05:51,110 --> 00:05:57,020
with closely in in conjunction with wrs

113 00:05:54,288 --> 00:06:00,620
rack number 2 wrs stands for water

114 00:05:57,019 --> 00:06:02,659
recovery system on top of the water
recovery system rack number two we have

the total organic carbon analyzer the
toca and we have a spot to take a urine
tank and a Yeti Belu using a compressor

we send we send the urine through here

and then it goes into the into the urine

processing assembly which is not working

perfectly right now

so the also that's for the urine that

comes out from the Russian segment from

the our main toilet but is this other

toilet that we just saw the the urine

can come from there directly to here it

gets distilled and processed to pure
water which we can drink or can be made

into oxygen or use for other things

here's a new thing also that we got was

the Express track number six which one

of my favorite things on this track

inside and keep things cold which is the

first time in a long time that we've had

something like this on station so you

can see we it's not very much room but

it's enough it's definitely enough

also we have a glacier freezer that's

not for food is for biological samples

and we also have a potable water

dispensers which isn't certified for use
yet but in the future this is what we're gonna be able to have get to fill our drink bags and rehydrate our food from here that's on the ceiling by the way we can you definitely use us three dimensions in space so even though this is a big space station it's even bigger because we use you know the ceiling and the floors also this is the robotics workstation for the laboratory module is where we do our robotics from you can see that we even have potential to put two more monitors when the shuttle comes so we have a lot of a lot of use
eventually in the next year so we're

gonna have the cupola on on our next

note node 3 and the cupola will be able

to look outside it has a lot of very

beautiful windows and then we have a

robotics workstation this one the people

our robotics workstation that will get

we have a lot of computers everywhere we

have a printer old-fashioned but it

works and now we're gonna go back into

one of the first modules no the one

which is also called unity this thing

that's so kind of blocking our view is

the advanced resistive exercise device

and it's we put it together recently and
we're still checking it out still needs to be calibrated but once it gets calibrated we'll be exercising here every day and it's big this is a really huge device but it also can twice as much twice as much chances to work out I think most people would say that the I read the Internet in interim resistive exercise device you can maybe go up to two or three hundred pounds this one has potential to go to the six hundred pounds so it's a you can get much bigger loads it works by using a vacuum system so you can see these two big vacuum
canisters right up here you can see as I

float backwards in the node one here you

can see how big that a red is and how

much it takes how much room it takes up