Windward Community College
Welcomes you to

MET 101
Meteorology is fun!!

Optional field trip (extra credit) to the National Weather Service Forecast Office
Date & time will be announced later.

NOTE: To start MET 101, you MUST complete the following 3 tasks (10 points) within the first 3 weeks. They are designed to make you familiar with the procedures you need to use Laulima and other class procedures:

________________________________________________________________

NOTE: If you have any questions about this course, please e-mail me using my UH e-mail address (Ikagawa@hawaii.edu). Always include “MET 101” in the subject field of your e-mail, so that I will notice it immediately. This will be automatically done if you use the Maitool in Laulima. DO NOT use “Private Messages” in Laulima.

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1. After carefully reading this syllabus, download the Syllabus Acceptance Form from the Laulima Resources page, fill it up, and submit it via Assignments tool (into “Syllabus Acceptance”) by the end of the 3rd week. You can access the Resources and Exams, Quizzes & Surveys pages by clicking an appropriate name in the Table of Contents (TOC) on the left column. Without the acceptance, you are NOT allowed to participate in this course (i.e., dismissed with a failing grade). (No points assigned)

2. Access the Discussion and Private Messages page from TOC, click Class Discussion, and open Introduce yourself topic. You can introduce yourself to the class here. Please, however, refrain from subjects that are not appropriate in public discussion. (5 points)

3. Goto a testing center, and access the Exams, Quizzes & Surveys page from TOC. Open MET 101 Presurvey (20 questions) and answer the questions. The proctor at a testing center will type in the password for you. This survey is used for a Student Learning Outcome assessment purpose only. It is NOT an exam (although it is in a test format, and not
anonymous for the purpose of giving points to individuals), thus if you take it, you will receive the full credit. (5 points)

When you complete the above 3 tasks, you will receive total of 10 points. Note that your points will be posted in the **Gradebook** under “Syllabus Acceptance.” If you miss any of these 3 tasks, you will be automatically given a failing grade for the course.

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**Meteorology 101— Introduction to Meteorology**

03
Online: [Laulima](#) (CRN: 61418)

**INSTRUCTOR:** Toshi Ikagawa, Ph.D.
**OFFICE:** Na’auao 127
**OFFICE HOURS:** TR: 11:30 a.m. – 1:00 p.m. by appointment
**TELEPHONE:** 236-9216; ikagawa@hawaii.edu
**EFFECTIVE DATE:** Fall 2017

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**Windward Community College** Mission Statement

*Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai’i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O’ahu’s Ko’olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.*

**CATALOG DESCRIPTION**

*Introduction to Meteorology* (MET 101), 3 credits. Introduction to the study of basic atmospheric physics, Sun-Earth-atmosphere-ocean-human interrelationships, major weather systems and forecasting, with special emphasis on Hawai’i. For both science and non-science majors and prospective science teachers.

**STUDENT LEARNING OUTCOMES**

At the completion of the course the student will be able to:

1. **Describe** the components, processes and resulting weather patterns in the atmosphere.

2. **Interpret** the components of weather maps, and **forecast** weather.
3. **Apply** the scientific method and theories and concepts of meteorology (atmospheric physics) to **explain** major weather systems.

4. Explain critically the relationship between humans and the atmospheric environment.

**REQUIREMENTS COURSE SATISFIES:**

**At WCC:** Meets AA degree physical science requirement of the Natural Science requirements. Also full fill marine related elective requirement of the Marine Option Program (MOP).

**At UHM:** Meets Natural Science general education requirements (DP).

**PREREQUISITES**

None

**CO-REQUISITES**

None

**RECOMMENDED PREPARATION AND BASIC SKILLS**

Ability to read and write at a college level is recommended. Knowledge of college level algebra and geometry is also helpful to understand course material.

**METHOD OF INSTRUCTION**

Online (Internet & Laulima)

Useful readings prepared by Dr. Brian Richardson
(a) [Getting Started with Laulima](#)
(b) [Forwarding Your UH Mail to Another Email Account](#)

Occasionally, a rush message is disseminated via the UH e-mail. Please check your UH e-mail often.

**LEARNING RESOURCES**

**Course package** includes:

1. **Textbook:** *Weather Studies*, Latest Ed. by Joseph M. Moran. American Meteorological Society
Textbook is also available online. For more information, please contact WCC Bookstore: 235-7418)

2. **MET 101 Workbook**, compiled by the instructor (Available at WCC Bookstore; also available as a PDF file in the Laulima Resources page)

3. Access to the American Meteorological Society course homepage

**Reference and Supplementary Materials**

Many informative web sites are available for the subjects covered. Check the links provided in the **MET 101** section of my web page:

http://www.wcc.hawaii.edu/facstaff/ikagawa-t/

**COURSE TASKS**

**Assignments:**

The **AMS** online course materials are accessible at:

AMS Homepage

It is assumed that you will read and complete all assigned materials.

To access the MET 101 **Laulima** site:

https://laulima.hawaii.edu/portal

Useful readings prepared by Dr. Brian Richardson

(a) **Getting Started with Laulima**

(b) **Forwarding Your UH Mail to Another Email Account**

For additional information, see my web site at WCC:

http://www.wcc.hawaii.edu/facstaff/ikagawa-t/

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**WARNING:** Please do NOT share the Log-in information with a third party. Any violation of this confidentiality will lead you to dismissal from this course, at least.

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**ASSESSMENT TASKS AND GRADING**
Evaluation:

There will be

- **3 Exams** of 60 questions each (counted 60 points each; total 180 points). **Reviews** are available in the **Resources** page. Study them **before** taking the Exams.

- The **initial 3 tasks** (a self-introduction/syllabus acceptance/pre-survey) (10 **extra** points). Go to a testing center to complete the **pre-survey**.

- **Post-survey** (**Mandatory**, **extra** points up to 10 pts according to your achievement)

- **12 Workbook Exercises** (10 points each; total 120 points).

- **Discussions** (2 entries per week required, Total 30 points)

Thus, there are **330** total points possible (See “**Grading Scale**” below).

**ACADEMIC DISHONESTY**  **(SERIOUS WARNING!!)**

Academic dishonesty such as cheating and plagiarism that occur in this class will be severely punished. It most likely will result in immediate dismissal from the class. In other words, DON'T DO IT for any reason. It is NOT worth it.

**GRADING SCALE: STANDARD SCALE**

A: 90.0–100.0%, B: 80.0–89.9%; C: 70.0–79.9%, D: 60.0–69.9%, F: 0–59.9%.

For Credit/Non-Credit options, Incomplete (“I” grade), and “W” grade, see the WCC College Catalog.
There is no “N” grade in this class.

**EXTRA CREDIT**: There are total of **35** points available as **extra credit** work for the class:

1. **Extra exam** (covers Ch 13-15; 15 points (60 questions; 15 points)
2. **Post-survey** (**Mandatory**) (up to 10 points according to your achievement)
3. **NWS visit** and **report** (10 points, when offered)

**WCC DISABILITIES ACCOMMODATION STATEMENT**

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable
accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu or you may stop by Hale 'Akoakoa 213 for more information.

ADDITIONAL INFORMATION

Legal assumptions:

It is hereby assumed that all students will strictly follow the WCC Code of Student Conduct (see Student Affairs, WCC Course Catalogue). Refer to the Student Conduct Code (http://www.hawaii.edu/apis/ep/e7/e7208.pdf) for the details.

COURSE CONTENT

COURSE PROCEDURES

1. Access: Because this is an online course, you need to be able to access

   (1) UH Laulima site: https://laulima.hawaii.edu/portal

       Useful readings prepared by Dr. Brian Richardson
       (a) Getting Started with Laulima
       (b) Forwarding Your UH Mail to Another Email Account

   (2) AMS online course homepage: www.ametsoc.org/amsedu/login.cfm

WARNING: Please do NOT share the access information with a third party. Any violation of this confidentiality will lead you to dismissal from this course, at least.

NOTE: If you have any questions about this course, please e-mail me using my UH e-mail address (Ikagawa@hawaii.edu). Always include “MET 101” in the subject field of your e-mail, so that I will notice it immediately. This will be automatically done if you use the Mailtool in Laulima. DO NOT use “Private Messages” in Laulima.

2. Secrets of Success: Two key factors are especially important
(1) **Self-motivation**: Because this is an online course, nobody will push you to do the work. Thus, self-motivation is a key factor of success in this course.

(2) **Communication**: You are not alone. Continuous and open discussion among all participants is strongly recommended. You will use the “Questions” and “Student Lounge” pages available in the Discussions and Private Messages tool of Laulima to communicate with each other. For online investigations, group work is encouraged (i.e., help each other).

3. **Chapter review (textbook)**

Read the assigned pages of the textbook. Then study the **Review Questions** for the chapters (MS WORD format files are available in **Resources** page).

This table shows the chapters in the textbook, corresponding review questions, and those for exams.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Review</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Review 1</td>
<td><strong>Exam 1: Ch 1–4</strong>&lt;br&gt;(60 questions will be randomly selected from the 120 review questions)</td>
</tr>
<tr>
<td>2</td>
<td></td>
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<td>3</td>
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<tr>
<td>4</td>
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<tr>
<td>5</td>
<td>Review 2</td>
<td><strong>Exam 2: Ch 5–8</strong>&lt;br&gt;(60 questions will be randomly selected from the 120 review questions)</td>
</tr>
<tr>
<td>6</td>
<td></td>
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<tr>
<td>7</td>
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<tr>
<td>8</td>
<td></td>
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<tr>
<td>9</td>
<td>Review 3</td>
<td><strong>Exam 3: Ch 9–12</strong>&lt;br&gt;(60 questions will be randomly selected from the 120 review questions)</td>
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<tr>
<td>10</td>
<td></td>
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<tr>
<td>11</td>
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<tr>
<td>12</td>
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<tr>
<td>13</td>
<td>Review Extra</td>
<td><strong>Extra Credit Exam</strong>&lt;br&gt;(60 questions will be randomly selected from the 150 review questions)</td>
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<tr>
<td>14</td>
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<tr>
<td>15</td>
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</tbody>
</table>

4. **Exams (online)**:

(1) You will take your **3 Exams** via Laulima at a Testing Center on **Windward Community College** campus (or other campuses) by the **Due Dates**. **Reviews** are available in the **Resources** page. Study them **before** taking the Exams.

! You can take each exam ONLY once.
NOTE: If necessary, you can arrange to take exams at other designated testing sites. Please contact the instructor to set up your testing site.

The list of locations is found at:

http://www.hawaii.edu/dl/faculty/prep/proctor_office.html

5. MET 101 Workbook

(1) Read the assigned pages of the textbook. Then study the assigned exercise.

When you complete the exercise, enter your answers online on Laulima by the due date. You can access “Investigations” from Exams, Quizzes and Surveys page.

NOTE: You can enter your answers only once. Be sure of your answers before submitting.

Contents of the Workbook:

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Air Pressure and Wind</td>
<td>Week 2</td>
</tr>
<tr>
<td>2. Structure of Atmosphere</td>
<td>Week 3</td>
</tr>
<tr>
<td>3. Solar and Terrestrial Radiation</td>
<td>Week 4</td>
</tr>
<tr>
<td>4. Heat and Temperature</td>
<td>Week 5</td>
</tr>
<tr>
<td>5. Air Pressure</td>
<td>Week 6</td>
</tr>
<tr>
<td>6. Humidity</td>
<td>Week 7</td>
</tr>
<tr>
<td>7. Clouds and Precipitation</td>
<td>Week 8</td>
</tr>
<tr>
<td>8. Wind and Weather</td>
<td>Week 9</td>
</tr>
<tr>
<td>9. Atmosphere's Planetary Circulation</td>
<td>Week 10</td>
</tr>
<tr>
<td>10. Weather System of Middle Latitude</td>
<td>Week 11</td>
</tr>
<tr>
<td>11. Thunderstorms and Tornadoes</td>
<td>Week 12</td>
</tr>
<tr>
<td>12. Tropical Weather System</td>
<td>Week 13</td>
</tr>
</tbody>
</table>

6. Discussion (online):
(1) Like you did in “Introduce Yourself” exercise, post your Report (i.e. your reactions, opinions, etc.; NOT the response form) in the appropriate topic area in the Class Discussions section of Discussions and Private Messages by the due date. For example, you can report how you did it, what mistakes you made, what questions you still have, etc.

WARNING: Please do NOT share the Discussions tool with a third party. Any violation of this confidentiality will lead you to dismissal from this course, at least.

During the first 2 weeks of instruction, to familiarize yourself with the Discussions and Private Messages tool, you introduce yourself (Report). Also, comment on at least two reports (Reply).

You can seek help from your fellow students by posting your problems in the Class Discussions section. It is strongly encouraged that you help each other.

To access Class Discussions:
Log in to Laulima → Go to MET 101 page
TOC > Discussions and Private Messages Tools

The Discussions opens. Go to Class Discussion. Click on the appropriate topic and compose your message. Your report should NOT exceed 250 words.

You can add your picture, or any picture you like (of course, nothing obscene or offensive, please), in Discussion and Private Messages, My Profile. Go to "Avatar" at the bottom of the page. Please use rather small pictures.

To compose your report, an easy way is to type your report using MS Word or other word processor, and then copy and paste it in a message. Don’t forget your Name.

Also, be sure to Reply to at least one entry in the Discussions. In other words, you write your reaction to at least one person’s report. Thus, you should have at least TWO entries. Again, you are strongly encouraged to assist your fellow students.

Discussion for each chapter/investigation remains open until the due date mentioned above. Be sure to report and reply within this time period.
NOTE: If you have any questions about this course, please e-mail me using my UH e-mail address (Ikagawa@hawaii.edu). Always include “MET 101” in the subject field of your e-mail, so that I will notice it immediately. This will be automatically done if you use the Mailtool in Laulima. DO NOT use “Private Messages” in Laulima.

### COURSE DUE DATES

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-introduction &amp; Pre-survey</td>
<td>3rd week at WCC. Go to a testing center for the Pre-survey.</td>
</tr>
<tr>
<td>Syllabus acceptance</td>
<td>3rd week</td>
</tr>
<tr>
<td>Workbook Exercises</td>
<td>Saturday evening, every week 2nd-13th Week (Ends on Saturday) (check due dates online in the Exams, Quizzes &amp; Surveys page) NOT proctored, so you can complete them at home. Note, however, it is timed</td>
</tr>
<tr>
<td>Discussions</td>
<td>Same as the above</td>
</tr>
<tr>
<td>Exams</td>
<td></td>
</tr>
<tr>
<td>Exam 1: Ch 1--4</td>
<td>6th-7th week (Ends on Friday)</td>
</tr>
<tr>
<td>Exam 2: Ch 5--8</td>
<td>10th-11th week (Ends on Friday)</td>
</tr>
<tr>
<td>Exam 3: Ch 9--12</td>
<td>14th-16th week (Ends on Last day of Instruction)</td>
</tr>
</tbody>
</table>
### Post-survey (Mandatory)
14th-16th week (Ends on Last day of Instruction)

### All Extra Credit Assignments
16th week (Last Day of Instruction)

**NOTE 1:** Exact open and due dates of each exam/quiz are available on Exams, Quizzes & Surveys page on Laulima. Exams, etc. are due at 3 p.m. of the due date, not at the time of a testing center closes.

! Nothing will be accepted after the designated due dates.

! Testing Centers may not be open on the due dates!

**NOTE 2:** No personal items, including electronic device (such as a cell phone and iPad), are allowed during the proctored assignments.

**NOTE 3:** If you have any questions about this course, please e-mail me using my UH e-mail address (Ikagawa@hawaii.edu). Always include “MET 101” in the subject field of your e-mail, so that I will notice it immediately. This will be automatically done if you use the Mailtool in Laulima. DO NOT use “Private Messages” in Laulima.

Last revised: July 29, 2017