IMPORTANT NOTE
Read this prontuario as soon as you get it and read it carefully! It contains the “rules of the game”. Avoid unexpected surprises when it is too late to do anything about them. Ignorance of the rules is no excuse for breaking them.

1. Faculty & Staff
   Dr. Bienvenido Vélez Rivera
   Office: Terrats-212
   Phone: (787)-832-4040, x-3023
   E-mail: icom4036-profs@ece.uprm.edu
   WWW: http://www.ece.uprm.edu/~bvelez
   Office Hours: Tuesdays and Thursdays 2:30-4:00 PM

2. Course Description

   Comparative study of programming paradigms including imperative, object-oriented, functional, logic, and concurrent programming with focus on main features produced by different languages for specific applications. Formal specification of the syntactic structure of a language, context-free grammars, parsing, and principles of language design.

   You will find a detailed course outline in an accompanying handout.

3. Pre-requisites

   ICOM 4035 – Data Structures

4. Lectures

   Tuesday/ Thursday 4:10-5:25 PM, S-228

5. Course Credits

   3 credits
6. Course Web Site

The course will have a website holding many useful resources to help you throughout the course. We try to make an effort to keep the site updated, but will invariably make mistakes and forget to update materials once in a while. PLEASE LET US KNOW ABOUT ANY PROBLEMS WITH THE WEBSITE AS SOON AS YOU DETECT THEM. We tend to get a fair amount of general criticism for not keeping the site up to date, but we seldom get an email notifying a broken or stale link. HELP US HELP YOU.

URL: http://www.ece.uprm.edu/~bvelez/courses/Spring2006/icom4036/icom4036.htm

7. Textbook & References

![Programming Language Pragmatics](image)

Programming Language Pragmatics
by Michael L. Scott

- **Hardcover**: 856 pages
- **Publisher**: Morgan Kaufmann; 1st edition (January 15, 2000)
- **ISBN**: 1558604421
- **Product Dimensions**: 9.6 x 7.7 x 1.7 inches
- **Shipping Weight**: 3.5 pounds.

The following is a list of reference books in which some of the material discussed in class can be found:

<table>
<thead>
<tr>
<th>Reference Book</th>
<th>Details</th>
</tr>
</thead>
</table>
| **Concepts of Programming Languages (6th Edition)**               | by Robert W. Sebesta
- **Hardcover**: 704 pages ; Dimensions (in inches): 1.16 x 9.62 x 7.30
- **Publisher**: Pearson Addison Wesley; 6 edition (July 24, 2003)
- **ISBN**: 0321193628 |
| **Programming Languages Principles and Practice**                 | by Kenneth C. Louden
- **Hardcover**: 650 pages ; Dimensions (in inches): 1.25 x 9.75 x 6.75
- **Publisher**: PWS Publishing Co.; 2nd edition (July 15, 2002)
- **ISBN**: 0534953417 |
| **Programming Languages Concepts and Constructs**                 | by Ravi Sethi, Tom Stone (Editor)
- **Hardcover**: 624 pages ; Dimensions (in inches): 1.22 x 9.53 x 7.70
- **Publisher**: Addison-Wesley Pub Co; 2nd edition (February 1996)
- **ISBN**: 0201590654 |
An additional set of programming language references and manuals will be posted on the course website. I keep personal copies of most of these books. If you are interested ask me and I will lend you my copy.

8. Email

Every student is required to have an email account accessible from the Internet. Email will be an essential means of communication between students and staff during the term. **Students and staff will be assumed to have received email within 24 working hours, not including weekends.** Both students and staff may make use of the following email lists:

<table>
<thead>
<tr>
<th>List Name</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>icom4036-profs</td>
<td>Professor</td>
</tr>
<tr>
<td>icom4036-students</td>
<td>Students</td>
</tr>
<tr>
<td>icom4036-forum</td>
<td>Students and professor</td>
</tr>
</tbody>
</table>

You must go online to subscribe to the icom4036-students list. A link is accessible for this purpose at the Email section of the course home page. You are responsible for keeping your email account cleaned up and available at all times. If you miss an email for some reason, our email system keeps an archive will all the messages sent to each of the lists. You can access the archive from the course home page.

You may not use the class mailing lists for personal matters not related to this course. Inadequate use of email may violate UPR institutional policy on Internet and information technology use and may trigger disciplinary action. Please observe the rules of netiquette at all times.

9. Course Management via WebCT

A **WebCT account** will be maintained provide students individual course information such as grades. You should already have access to the WebCT account using your UPRM general account (based on your student number). Try it an let us know if you encounter any difficulties accessing the account. The WebCT account will also be used to exchange email and conduct intra-course chats among students and staff related to the course. Chatting through webCT with the professor will also be available during his office hours.
10. Office Hours

The professor will hold weekly office hours (see section 1 above). This is an excellent opportunity to go over the material discussed in class on a one on one basis and at an individual pace. Unfortunately, many students who may greatly benefit from it, seldom visit the professor before their doubts have accumulated to the point where it becomes very hard to keep up with the course. We commonly get student complains near the end of the semester about the difficulty of some concepts and their inability to keep up with the course. Such complaints seldom come from students who have frequently attended office hours. If you do not understand a concept discussed in class please use this important resource. Bring your questions and remember that the dumbest question is the one that is never asked. IT IS MY JOB AND GOAL TO HELP YOU MASTER THE COURSE SUBJECTS. That’s what I get paid for 😊

11. Course Evaluation

Your grade will be based exclusively on the scores that you obtain in the class problem sets, programming assignments, partial exams and a final exam. Each such piece of work will be graded on a scale of 0-100. The weights assigned to each of these categories are as follows:

<table>
<thead>
<tr>
<th>Evaluation Categories</th>
<th>Percentage Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Sets and Programming Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Partial Exams (3)</td>
<td>42% (14% each)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>38%</td>
</tr>
</tbody>
</table>

Your total score will be calculated as a weighted average of your average scores in each category. Each individual problem set and exam will carry the same weight within its corresponding category. Your grade will be determined by a standard curve as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>[90, 100]</td>
</tr>
<tr>
<td>B</td>
<td>[80, 90)</td>
</tr>
<tr>
<td>C</td>
<td>[70, 80)</td>
</tr>
<tr>
<td>D or F</td>
<td>[0, 70)</td>
</tr>
</tbody>
</table>

EXTREMELY IMPORTANT!
In order to pass the course you must turn in all your problem sets and programming assignments and attend all exams.

Students are expected to provide the best possible solution to problem set and exam questions in order to get full credit. We will not only evaluate correctness; we will evaluate quality as well.
Students will have ten (10) working days after their graded work is returned to them to make any claims about incorrect grading of problem sets or exams. No further claims will be considered after this time.

12. Problem Sets and Programming Assignments

Problem sets and programming assignments are homework assignments intended to allow the students the opportunity to expand on or practice the material discussed in class. The assignments may include exercises of diverse nature including: calculations, analysis and programming. Each problem set will carry the same relative weight. The number of problem sets and programming assignments will be determined through the semester, but will not be more than one every two weeks (8 total).

As an experiment, this semester we are letting students work on problem sets and assignments in groups of at most two students. Each student in a group is responsible for mastering all the issues covered by the problem set or programming assignment and not just a part or a section that they worked on at hand. Each student should be equally capable of answering any questions about the entire work that may appear in exams.

You may turn in a problem set or programming assignment late, but you must always submit it to pass the class even if it accumulates no points towards your total score. A percentage of the score will be deducted for your score for late submissions as follows:

<table>
<thead>
<tr>
<th>Days Late</th>
<th>Percent Deduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 day late</td>
<td>25%</td>
</tr>
<tr>
<td>2 days late</td>
<td>50%</td>
</tr>
<tr>
<td>3 days late</td>
<td>100%</td>
</tr>
</tbody>
</table>

Problem sets and programming assignments will be graded for both correctness and quality according to the following weights:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Weight (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correctness</td>
<td>60%</td>
</tr>
<tr>
<td>Design</td>
<td>20%</td>
</tr>
<tr>
<td>Efficiency</td>
<td>10%</td>
</tr>
<tr>
<td>Style &amp; Documentation</td>
<td>10%</td>
</tr>
</tbody>
</table>

All problem sets will be submitted electronically. You will receive instructions for electronic submission of problem sets with each problem set. Also new to this semester, we MAY grade some of the programming assignments through fifteen minute interviews with the each group of students (a.k.a. happy hours). Each group of students will register in advance for an interview that should occur during the week following the submission deadline.
13. **Partial Exams**

We will have three partial exams. Each exam will cover material up to and including the material covered before the date of the exam. However, emphasis will be placed on the material discussed but not tested by previous exams.

The exams will be administered during the class time and at dates to be announced during the first few weeks of the term, but never later than two weeks before the exam; this to allow for sufficient time for students to plan their studying. Once the dates of the exams are announced, they will not be subject to change. You are responsible for planning ahead of time. Having other exams the same day is no excuse for changing the dates.

Attending partial exams is a requirement of this course and missing an exam will be reason enough to fail the course, unless an arrangement can be worked out with the professor at least 24 working hours before the actual date of the exam.

In some cases and under the discretion of the professor, the exam scores may be normalized to compensate for an unexpected degree of difficulty as demonstrated by student scores.

Students must work individually on all exams. You will find more on this below under academic integrity.

14. **Final Exam**

A comprehensive final exam will be administered at the time and date determined by the UPRM Registrar. The exam carries a weight of 38% towards your final score. The date for the exam is usually announced by the registrar several weeks in advance.

15. **Changes to this Prontuario**

This prontuario usually suffers several mostly informational minor changes during the course of the semester. However, major changes will require a special procedure in order to get approved. The final decision will be made during a lecture session, but all students will be notified at least 24 working hours in advance about such a impending decision via email so as to give everyone an opportunity to attend and vote. Major changes may only be approved with the written consent of the professor and at least 90% of the students who attend the class during which the decision is made. Students with a major fortuitous reason not to attend the vote may vote via email at most 24 hours after the decision is made in class. Changing the evaluation scheme will constitute a major change and will require such written agreement.
16. Students with Disabilities

If you believe that you are at a disadvantage against other students due to a physical or mental difficulty, please contact the professor individually and immediately so that some reasonable accommodation can be made to attempt to circumvent or ameliorate the difficulty. It is not only our desire and duty but it is also your right as established by the 1990 Americans with Disabilities Act. Learn about your rights and demand them.

17. Academic Integrity

El artículo 10 del Reglamento General de Estudiantes de la Universidad de Puerto Rico contiene 15 puntos que se consideran "infracciones de las normas esenciales al orden y a la convivencia universitaria y acarrean sanciones disciplinarias." He aquí uno de los puntos.

La obtención de notas o grados académicos valiéndose de falsas y fraudulentas simulaciones, o haciéndose pasar por otra persona, o mediante treta o engaño, o copiando total o parcialmente la labor académica de otro estudiante, o copiando total o parcialmente las respuestas de otro estudiante a las preguntas de un examen, o haciendo o consiguiendo que otro tome en su nombre cualquier prueba o examen oral o escrito.

Violaciones a estos puntos pueden conllevar algunas de las siguientes sanciones:

1. Amonestación
2. Probatoria por un tiempo definido durante el cual otra violación de cualquier norma tendrá consecuencia de suspensión o separación
3. Suspensión de la Universidad por un tiempo definido. La violación de los términos de la suspensión conllevará un aumento del período de suspensión o la separación definitiva de la Universidad.
4. Separación definitiva de la Universidad.

El estudiante que viole este reglamento obtendrá F en la clase y su caso podrá ser llevado ante la junta de disciplina del Recinto. Evítese este mal rato, o aténgase a las consecuencias.

Si usted está teniendo problemas para completar algún trabajo, consulte al profesor a tiempo durante sus horas de oficina o solicitando una cita. Obtener información total o parcial del Internet para completar sus trabajos sin la debida autorización constituye una violación a las reglas de integridad académicas arriba descritas.