

UNIVERSITY OF NOTRE DAME  
Department of Aerospace and Mechanical Engineering  
AE 440: Flight Mechanics and Introduction to Design  
Fall 1998

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Project #1

Due: Friday, August 28, 1998

Some of the best sources of information on existing aircraft, naval vessels, spacecraft, etc. are collected by Jane's Publishing Company, London, England. One in particular, Jane's All the World's Aircraft is published yearly and contains descriptions of many of the aircraft manufactured in the world today. Many of these annual issues are located in the reference section (second floor) of the Hesburgh Library and three '74-'75, '84-'85, and '94-'95 will be on the Reserve Shelf of the Engineering Library from 8/25/98 until 8/28/98.

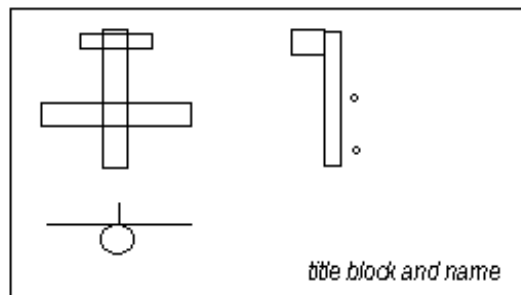
You will be assigned an aircraft for this project and the issue in which this aircraft appears will also be provided. Locate that issue and your aircraft and collect information on the external configuration so that you can complete a memorandum as described below.

The "body" of the memo should contain:

- name of the aircraft assigned to you
- brief paragraph (approx. 200 words) describing the background of this aircraft

There should be two readily identifiable and separate attachments:

1. A three view orthogonal sketch (hand drawn to scale) of your aircraft with basic major dimensions indicated (on a single 8.5" x 11" sheet, landscape layout), the front view should be in the lower-left-hand quadrant of the paper, the planform view in the upper-left-hand quadrant, the side view in the upper-right-hand quadrant and a title block (with your name) in the lower-right-hand quadrant.



2. A tabular listing of the major external geometric parameters for your aircraft

The second attachment is the most critical part of this project. You should attempt to describe the fundamental external geometry of the aircraft in as concise yet complete a set of parameters as possible. Your notation, reference systems, etc. should be self explanatory so that someone else can interpret them without your help. This second attachment should not contain the aircraft name or your name.