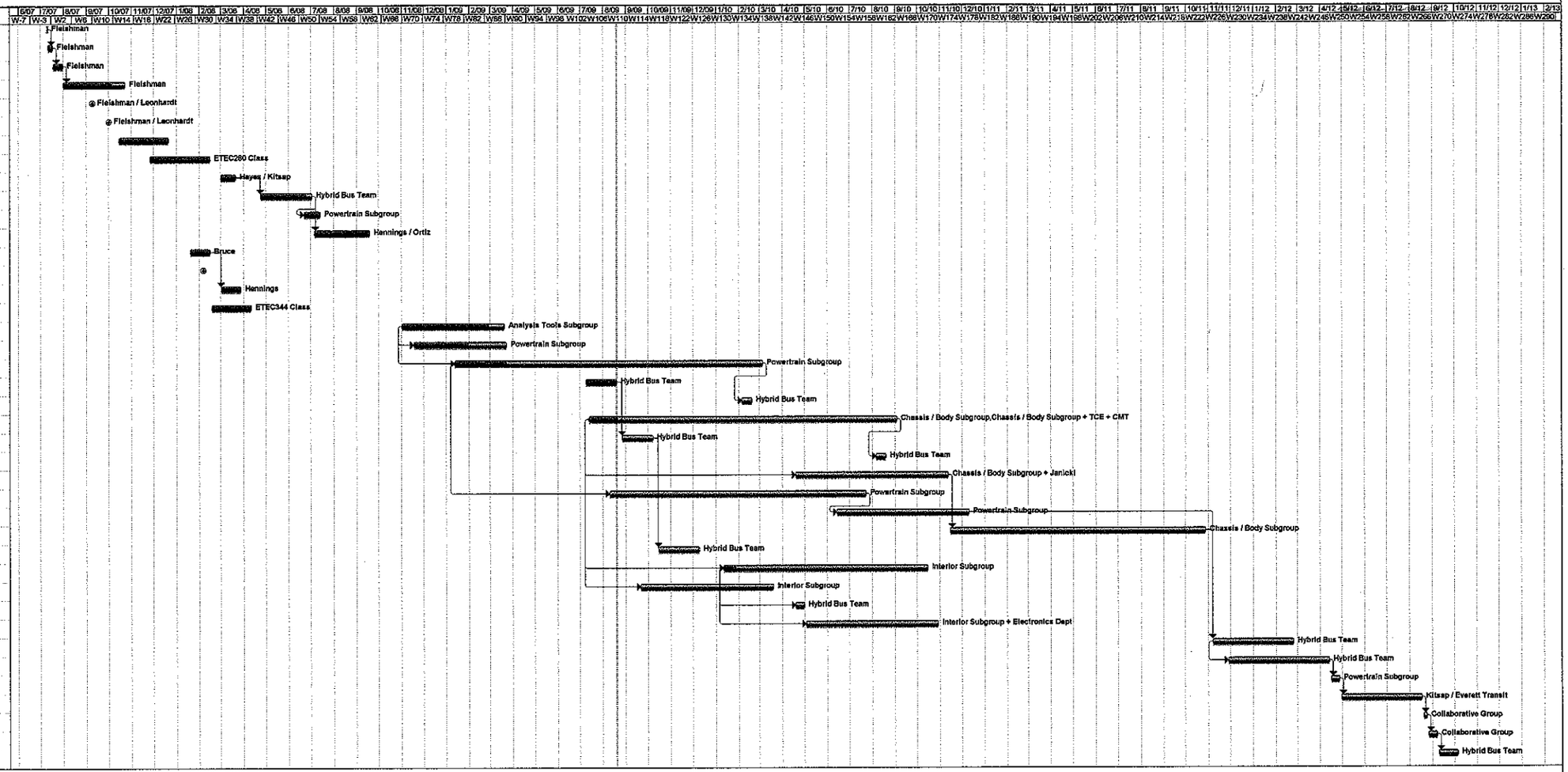
HYBRID BUS PROJECT
WESTERN WASHINGTON UNIVERSITY
VEHICLE RESEARCH INSTITUTE

ID	Task Name
1	Identify Project Goals
2	Develop Definitions / Levels of Student Involvement
3	Identify Current Global Bus Manufacturers
4	Research Existing Transit / School Bus Designs
5	Meeting with Kitsap Transit => After Focus to Type A Shuttle
6	Meeting with Janicki for Composite R&D Support
7	Form Student Project Team & Assign Roles
8	Research Alternative Fuel Technology & Options for Fleet Use
9	Obtain Electric Bus from Kitsap Transit for Benchmarking / Hardware
10	Conduct Benchmarking Analysis on Comparable Vehicles
11	Establish Fuel Economy & Acceleration Targets of Benchmark Vehicles
12	Review & Summarize Benchmarking Study
13	Develop & Issue Passenger / Driver Surveys
14	Kitsap Transit Hybrid Bus Project Workshop
15	Review & Summarize Survey Results
16	Conduct QFD Analysis for Design Goal Refinement
17	Develop Powertrain Analysis Tool
18	Research & Select Powertrain System Hardware (ie. E-motor, IC Engine, etc.)
19	Research & Design Unique Powertrain Elements
20	Powertrain DFMEA
21	Powertrain Design Review #1
22	Research & Design Unique Body / Chassis Elements
23	Chassis / Body DFMEA
24	Chassis / Body Design Review #1
25	Design & Fabricate Composite Chassis / Body Tooling
26	Design Powertrain Controls System
27	Complete Fabrication of Powertrain Components
28	Complete Body / Chassis Fabrication
29	Interior DFMEA
30	Design & Fabricate Driver & Passenger Interior Components
31	Design & Fabricate Disabled Passenger Access Systems
32	Interior Design Review #1
33	Design, Fabricate & Install Internal Driver/Passenger Infotainment Systems
34	Initial Vehicle Systems Testing (functional de-bug, emissions)
35	Refinement of Initial Components
36	Establish Prototype Vehicle Fuel Economy & Emissions Levels
37	Vehicle to Corporate Partners for Evaluation
38	Determine Areas for Development / Refinement
39	Develop Project Continuation Plan
40	Issue Summary Report



Project: Bus Research Project
Date: Wed 6/18/09

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline

Professor S. Fleishman